

Db 433 GATATTAGCATGAGTCTATCAGATGGGATGCTGTGGGATTTTGACATGGAGTGGCCACCA 492
Qy 456 AGTTTGTAGAAAAGGTGTTCTCCGGGAGAGTGTGGGACTGTCCAGATATGTTGATAGT 515
Db 493 TTATACAAATAGAGGAAACT---TGGCAAAGTTGCACCTAAATTCAGTTGTGTGTTCTGAG 549
Qy 516 AATTATTGTGATGTTATGTCATATTTT---CATTTCTGATCCCTCAAAGTCTCCAACAT 572
Db 550 AGCAAAATGTTACTTGTTCACAGTTTCTTCCATGTCAGTTTTCCTCCAGGGATTTAAAAATG 609
Qy 573 CTTATTGAAGATTCAACACTTTGAAAGTAGGTATTTGGAATTTGATGGTGAATCTCTGTGAAG 632
Db 610 TTGCTTGAATAAAGCAGTTTAAAGGCGAGTGTAGGAATTTGAAGGAGATCAGTGGAAA 669
Qy 633 CTTTTCATGACTATGGAGTTAGTATCAAGATGTTGAGGATCTTTGAGATTTAGCCAAAC 692
Db 670 CTTCTACGTGACTTTGATATCAAAATGGAAGAAATTTGTGGAGTTTGACAGATGTTGCCAAAT 729
Qy 693 CAAAAAATTTGTGGAGATAAAAAATGGGCTTGCCTCACTAACTGAGACACTGTTTTC 752
Db 730 AAAAGCTGAAATGTACAGAGCTTGGAGCTTAAACAGTCTGGTTAAACACCTCTTAGGT 789
Qy 753 AAAGAGCTCTCTGAAGCCAAACAGAACTCAGGCTTGGGAACTGGGAGTTTATCTCTCTGCA 812
Db 790 AAACAGCTCTCTGAAGACAAGTCTATCCGCTGTAGCAATTTGAGTAAATTTCTCTCACT 849
Qy 813 AAGCAGCTGTTACAAATACGACGACGAGTCTTATGCTTCAATGCTTCAAGAGTTT 872
Db 850 GAGGACCAAGAACTGTATGACGACCACTGATCTTATGCTGCTTTTATTTATTTACCGAAAT 909
Qy 873 CTTAAGGACCTTCTGTGCTGT 895
Db 910 TTAGAGATTTTGGATGATACTGT 932

RESULT 2

US-09-791-211-11
; Sequence 11, Application US/09791211
; Patent No. 6448080
; GENERAL INFORMATION:
; APPLICANT: Donna T. Ward
; APPLICANT: Andrew T. Watt
; TITLE OF INVENTION: ANTISENSE MODULATION OF WRN EXPRESSION
; FILE REFERENCE: RTS-0205
; CURRENT APPLICATION NUMBER: US/09/791,211
; CURRENT FILING DATE: 2001-02-23
; NUMBER OF SEQ ID NOS: 90
; SEQ ID NO 11
; LENGTH: 5208
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (232)...(4530)
US-09-791-211-11

Query Match 10.6%; Score 111; DB 3; Length 5208;
Best Local Similarity 54.1%; Pred. No. 1.3e-24;
Matches 272; Conservative 0; Mismatches 225; Indels 6; Gaps 2;

Qy 396 GATACCAAGAGAGATGAATCTGGAATAGCTTTTGTGGCTTGGATATTTAGTGCGAGACCA 455
Db 433 GATATTAGCATGAGTCTATCAGATGGGATGTTGGGATTTGACATGGAGTGGCCACCA 492
Qy 456 AGTTTGTAGAAAAGGTGTTCTCCGGGAGAGTGTGGGACTGTCCAGATATGTTGATAGT 515
Db 493 TTATACAAATAGAGGAAACT---TGGCAAAGTTGCACCTAAATTCAGTTGTGTGTTCTGAG 549
Qy 516 AATTATTGTGATGTTATGTCATATTTT---CATTTCTGATCCCTCAAAGTCTCCAACAT 572
Db 550 AGCAAAATGTTACTTGTTCACAGTTTCTTCCATGTCAGTTTTCCTCCAGGGATTTAAAAATG 609
Qy 573 CTTATTGAAGATTCAACACTTTGTAAGTAGGTATTTGGAATTTGATGGTGAATCTGTGTAAG 632

Db 610 TTGCTTCAAAATAAAGCAGTTTAAAGGCGAGTGTAGGAATTTGAAGGAGATCAGTGGAAA 669
Qy 633 CTTTTCATGACTATGGAGTTAGTATCAAGATGTTGAGGATCTTTGAGATTTAGCCAAAC 692
Db 670 CTTCTACGTGACTTTGATATCAAAATGGAAGAAATTTGTGGAGTTTGACAGATGTTGCCAAAT 729
Qy 693 CAAAAAATTTGTGGAGATAAAAAATGGGCTTGCCTCACTAACTGAGACACTGTTTTC 752
Db 730 AAAAGCTGAAATGTACAGAGACCTTGGAGCTTAAACAGTCTGGTTAAACACCTCTTAGGT 789
Qy 753 AAAGAGCTCTCTGAAGCCAAACAGAACTCAGGCTTGGGAACTGGGAGTTTATCTCTCTGCA 812
Db 790 AAACAGCTCTCTGAAGACAAGTCTATCCGCTGTAGCAATTTGAGTAAATTTCTCTCACT 849
Qy 813 AAGCAGCTGTTACAAATACGACGACGAGTCTTATGCTTCAATGCTTCAAGAGTTT 872
Db 850 GAGGACCAAGAACTGTATGACGACCACTGATCTTATGCTGCTTTTATTTATTTACCGAAAT 909
Qy 873 CTTAAGGACCTTCTGTGCTGT 895
Db 910 TTAGAGATTTTGGATGATACTGT 932

RESULT 3

US-09-618-166-70
; Sequence 70, Application US/09618166
; Patent No. 6583112
; GENERAL INFORMATION:
; APPLICANT: Fu, Ying-Hui
; Oshima, Junko
; Mulligan, John T.
; Schellenberg, Gerald D.
; TITLE OF INVENTION: GENE AND GENE PRODUCTS RELATED TO
; WERNER'S SYNDROME

NUMBER OF SEQUENCES: 209
CORRESPONDENCE ADDRESS:
ADDRESSEE: Seed Intellectual Property Law Group
STREET: 701 Fifth Avenue, Suite 6300
CITY: Seattle
STATE: Washington
COUNTRY: USA
ZIP: 98104-7092
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/618,166
FILING DATE: 17-Jul-2000
CLASSIFICATION: <Unknown>
ATTORNEY/AGENT INFORMATION:
NAME: Mcmasters, David D.
REGISTRATION NUMBER: 33,963
REFERENCE/DOCKET NUMBER: 240052.419C1
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206) 622-4900
TELEFAX: (206) 682-6031
INFORMATION FOR SEQ ID NO: 70:
SEQUENCE CHARACTERISTICS:
LENGTH: 5208 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
SEQUENCE DESCRIPTION: SEQ ID NO: 70:
US-09-618-166-70

Query Match 10.6%; Score 111; DB 4; Length 5208;
Best Local Similarity 54.1%; Pred. No. 1.3e-24;
Matches 272; Conservative 0; Mismatches 225; Indels 6; Gaps 2;

Qy	396	GATACCAAGAGAGATGAATCTCGAATAGCTTTTGGCTTGGATATGAGTGGAGACA	455
Db	433	GATATTAGCATGAGTCTTATCAGATGGGGATGTGGTGGGATTTGCATCGAGTGGCCACCA	492
Qy	456	AGTTTTAGAAAAAGTGTTCTCCCGGGGAAGGTTGCCACTGTCCAGATATGCTGATAGTAGT	515
Db	493	TTATACAAATAGAGGGAACT--TGGCAAGTTGCACTAATTCAGTTGTGTGTTCTGAG	549
Qy	516	AATTAATTGATGTTATGCAATATTTTT---CAPTCTGGTATCCCTCAAAAGTCTCCAACAT	572
Db	550	AGCAAAATGTTACTTGTGTTCCACGTTTCTTCCATGTCAGTTTTCCTCCAGGGATTAAAAATG	609
Qy	573	CTTATTGAAGATTCACACACTGTAAAGGTAGGTATTGGAAATTGATGGTGCCTCTGTGAAG	632
Db	610	TTGCTTGAAAAATAAGCAGTTAAAAAGGCGAGGTGTAGGAATTTGAAGGAGATCAGTGGAAA	669
Qy	633	CTTTTCCATGACTATGGAGTTAGTATCAAAAGATGTTGAGGACTCTTTTCAGATTTAGCCAAAC	692
Db	670	CTTCTAGTGACITTTGATATCAAAATTTGAAGAAATTTTGTGGAGTTGACAGATGTTGCCAAT	729
Qy	693	CAAAAAATTTGGTGGAGATAAAAAATGGGCGCTTCCTCTCTAACTGAGACACTTGTGTTGC	752
Db	730	AAAAAGCTGAAATGTATACAGAGACTCGAGCGCTTAAACAGTCTGGTTAAACACCTCTTAGT	789
Qy	753	AAAGAGCTCTGGAAGCCAAACAGAAATCAGCTTGGGAACTGGGAGTTTATCCTCTGTCA	812
Db	790	AAACAGCTCTGAAAGACAAAGTCTATCCGCTGTAGCAATGGAGTAAATTTCTCTCACT	849
Qy	813	AAGCAGCAGTTACAATACGACGACGAGTGTCTTATGCTTTCATGGCATCTTTTACAAGTT	872
Db	850	GAGCACCAGAAAATGTTATGACGACCACTGATGCTTATGCTGGTTTATTATTATTTACCGAAAT	909
Qy	873	CTTAAGGACCTTCCTGATGCTGT	895
Db	910	TTAGAGATTTGGATGATACTGT	932

RESULT 4
 US-09-949-001-3
 ; Sequence 3, Application US/09949001
 ; Patent No. 6825336
 ; GENERAL INFORMATION:
 ; APPLICANT: VENTER, J. Craig et al.
 ; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
 ; WITH OSTEOPOROSIS, METHODS OF DETECTION AND USES THEREOF
 ; FILE REFERENCE: CL000789
 ; CURRENT APPLICATION NUMBER: US/09/949,001
 ; CURRENT FILING DATE: 2003-01-15
 ; PRIOR APPLICATION NUMBER: 60/231,323
 ; PRIOR FILING DATE: 2000-09-08
 ; NUMBER OF SEQ ID NOS: 848
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 3
 ; LENGTH: 5208
 ; TYPE: DNA
 ; ORGANISM: Human
 US-09-949-001-3

	Query Match	10.6%;	Score 111;	DB 4;	Length 5208;
	Best Local Similarity	54.1%;	Pred. No. 1.3e-24;		
	Matches 272;	Conservative	0;	Mismatches 225;	Indels 6; Gaps 2;
Qy	396	GATACCAAGAGAGATCGAATCTCGAATAGCTTTTGTGTGGCTTGGAATTGAGTGGAGACCA	455		
Db	433	GATATTAGCATGAGTCTATCAGATGGGATGTGGTGGGATTTGACATGGAGTGCCACCA	492		
Qy	456	AGTTTTAGAAAAAGTCTTCTCCGGGAAAGTTGGGACTGTGCCATATGTGTAGATAGT	515		
Db	493	TTATACAATAGAGGGAACT---TGCAAAGTTGCATAATTCACTGTGTGTTCTCTGAG	549		
Qy	516	AATATTGTGATGTTATGCATATTTTT---CATTTGGTGATCCCTCAAGTCTCCAAAT	572		
Db	550	AGCAAAATGTTACTTGTTTCCACGGTTTCTCCATGTCCATGTGTCAGTTTTTCCACGGGATTAATAATG	609		

Qy	573	CTTATTGCAAGATTCAACACTTGTAAAGGTAGGTATTGGAAATTGATGGTGACTCTGTGAAG	632
Db	610	TTGCTTGAAAAATAAAGCAGTTAAAGAGCCAGGTGTAGGAATTCGAAGAGATCAGTGGAAA	669
Qy	633	CTTTTCCATGACTATGAGGTTAGTATCAAGAATGTTTGAGGATCTTTTCAGATTTTAGCCAAC	692
Db	670	CTTCTACGTGACTTTTGATATCAAAATTGAAGAAATTTTGTGGAGTTGACAGATGTGGCAAT	729
Qy	693	CAAAAAAATTTGGTGGAGATAAAAAATGGGGCCTTGCCCTCACTAACTCAGACACATTTGTTGC	752
Db	730	AAAAAGCTGAAATGTACAGAGACTGGAGCCITAAACAGTCTGGTTAAACACCTCTTTAGGT	789
Qy	753	AAAGAGCTCTCTGAAGCCAAAACAGAATCAGGCTTTGGGAACTGGGAGTTTTATCCTCTGTCA	812
Db	790	AAACAGCTCTCTGAAAGACAAAGTCTATCCGCTGTAGCAATGGAGTAAATTTCTCTCTCACT	849
Qy	813	AAGCAGCAGTTACAATACGCAGCAACGGATGCTTATGCTTTCATGGCATCTTTTACAAGTT	872
Db	850	GAGGACCAGAAAATGTATGCGACCACTGATGCTTATGCTGTTTATTTATTTACCGAAAT	909
Qy	873	CTTAAAGGACCTTCCTGANGCTGT	895
Db	910	TTAGAGATTTTGGATGATGACTGT	932

```

RESULT 5
US-09-949-001-9
; Sequence 9, Application US/09949001
; Patent No. 6825336
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH OSTEOPOROSIS, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL000789
; CURRENT APPLICATION NUMBER: US/09/949,001
; CURRENT FILING DATE: 2003-01-15
; PRIOR APPLICATION NUMBER: 60/231,323
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 848
; SOFTWARE: Fast-SEQ for Windows Version 4.0
; SEQ ID NO 9
; LENGTH: 5365
; TYPE: DNA
; ORGANISM: Human
US-09-949-001-9

```

	Query Match	10.6%	Score 111;	DB 4;	Length 5365;
	Best Local Similarity	54.1%;	Pred. No. 1.3e-24;		
	Matches 272;	Conservative 0;	Mismatches 225;	Indels 6;	Gaps 2;
Qy	396	GATACCAAGAGATGAATCTGGAATAGCTTTTGGTGGCTTGGATATTCAGTGGAGACCA	455		
Db	434	GATATTAGCATGATCTATCAGATGGGATGTGGTGGGATTTGACATGAGTGGCCACCA	493		
Qy	456	AGTTTTAGAAAAGGTGTTCTCCGGGGAAGTTGGACATGTCAGATATGCTAGATAGT	515		
Db	494	TTATACAATAGAGGGAAACT---TGGCAAAAGTTGCACTAAATTCAGTTGTGTCTGAG	550		
Qy	516	AATTATTGTGATGTTATGCATATTTTT---CATTCGTGTATCCCTCAAAGTCTCCAACAT	572		
Db	551	AGCAAAATGTACTGTGTCACGTTCTCTCCATGTCAGTTTTTCCCGCAGGATTAATAATG	610		
Qy	573	CTTATTGAAGATTCACACTGTGAAAGTAGGTATTGGAAATTTGATGGTGACTCTGTGAAG	632		
Db	611	TTGCTGTAANAATAACGATTTAAAGCGCAGGTGTAGGAATTTGAAGGAGATCAGTGGAAA	670		
Qy	633	CTTTTCCATGACTATGGAGTTAGTATCAAAGATGTTGAGGATCTTTCAGATTTAGCCAAC	692		
Db	671	CTTCTAGTGACTTTTGATATCAATTTGAAGAAATTTGTGGAGTTGACAGATGTTGCCAAT	730		
Qy	693	CAAAAAAATTTGGTGGAGATAAAAAATGGGGCCCTTGCCCTCACTAACTGACACACTTGTGGC	752		

Db 731 AAAAAAGCTGAAATGCACAGAGACCTGGAGCCTTAACAGCTCTGTTTAAACACCTCTTAGGT 790
Qy 753 AAGAGCTCTCTGAGCCAAACAGATCAGGCTTGGAACTGGAGTTTATCTCTCTGCA 812
Db 791 AAACAGCTCTCGAAGACAGCTCTATCGCTGTAGCAATTTGGAGTAAATTTCTCTCTACT 850
Qy 813 AAGCAGCAGTTTACATACGACGACGACGATGCTTATGCTTCATGCGATCTTTTACAAGGTT 872
Db 851 GAGGACACAGAACTGATGACGACCTGATGCTTATGCTGCTTTTATTTTACCGAAT 910
Qy 873 CTTAAGGACCTTCTGATGCTGT 895
Db 911 TTAGAGATTTTGGATGACTGT 933

RESULT 6

US-09-127-670-5
; Sequence 5, Application US/09127670
; Patent No. 6228593
; GENERAL INFORMATION:
; APPLICANT: Massachusetts Institute for Technology
; APPLICANT: Leonard P. Guarente
; APPLICANT: David A. Sinclair
; APPLICANT: David B. Lombard
; TITLE OF INVENTION: ASSAYS FOR COMPOUNDS WHICH EXTEND LIFE
; FILE REFERENCE: MIT-77200A
; CURRENT APPLICATION NUMBER: US/09/127,670
; CURRENT FILING DATE: 1998-07-31
; EARLIER APPLICATION NUMBER: US 60/054,629
; EARLIER FILING DATE: 1997-08-04
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 5
; LENGTH: 6476
; TYPE: DNA
; ORGANISM: Murine
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (229)...(4432)
US-09-127-670-5

Query Match 7.9%; Score 82.8; DB 3; Length 6476;
Best Local Similarity 53.2%; Pred. No. 2.1e-15;
Matches 199; Conservative 0; Mismatches 172; Indels 3; Gaps 1;
Qy 481 GGAAGTTGGCAGTCTCAGATATGTGTAGATAGTAAATTTATGATGTTATGCAATTT 540
Db 494 GCAGAGTCGCAATGATCCAGTTGTGTGTCTGAGAACAAATGTTACTGTTTTCACATTT 553
Qy 541 TT--CATCTGGTATCCCTCAAGTCTCCACATCTTATTGAGATTCACACTTGTAA 597
Db 554 CTTCAATGTCAGTTTTCCTCCAGGATTAATAATGTTACTAGAAACAAATCAATTAAGA 613
Qy 598 AGGTAGGTATTGGAATGATGCTGTGAGCTTTTCATGACTATGAGTTAGTA 657
Db 614 AGCAGGGTGGGATGAGGGACAGTGGAACTTCTGGTATTTGACGTCAAGT 673
Qy 658 TCAAGATGTTGAGATCTTTTCAATTTAGCAACCAAAAAATTTGGTGAGATAAAAAAT 717
Db 674 TGGAGATTTTGTGGAGCTGACGGATTTGCCAATGAAAGTTGAAGTGGCAGAGACT 733
Qy 718 GGGGCTTGCCTCACTAATGAGACACTTTGTTGCAAGAGCTCTGAGCCAAACAGAA 777
Db 734 GGAGCTCAATGGTCTGTTAAACAGCTCTTAGGGAAACAACTTTTGAAGACAAAGTCCA 793
Qy 778 TCAGGCTTGGGAACCTGGAGTTTATCTCTGTCAAAGCAGCAGTTCAATACGCGCAA 837
Db 794 TCCGCTGCGCAATTTGGAGTAATTTCCCCCTCACTGAGGACAGAACTGTATGAGCCA 853
Qy 838 CGGATGCTTATGCT 851
Db 854 CTGATGCTTATGCT 867

RESULT 7

US-08-781-891-205
; Sequence 205, Application US/08781891
; Patent No. 6090620
; GENERAL INFORMATION:
; APPLICANT: Fu, Ying-Hui
; APPLICANT: Yu, Chang-En
; APPLICANT: Oshima, Junko
; APPLICANT: Mulligan, John T.
; APPLICANT: Schellenberg, Gerald D.
; TITLE OF INVENTION: GENE AND GENE PRODUCTS RELATED TO
; TITLE OF INVENTION: WERNER'S SYNDROME
; NUMBER OF SEQUENCES: 209
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: SEED AND BERRY LLP
; STREET: 6300 Columbia Center, 701 Fifth Avenue
; CITY: Seattle
; STATE: Washington
; COUNTRY: USA
; ZIP: 98104-7092
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA: US/08/781,891
; APPLICATION NUMBER: US/08/781,891
; FILING DATE: 27-DEC-1996
; CLASSIFICATION: 800
; ATTORNEY/AGENT INFORMATION:
; NAME: No. 6090620tenburg Ph.D., Carol
; REGISTRATION NUMBER: 39,317
; REFERENCE/DOCKET NUMBER: 240052.419
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (206) 622-4900
; TELEFAX: (206) 682-6031
; INFORMATION FOR SEQ ID NO: 205:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 4792 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 145..4347
US-08-781-891-205

Query Match 7.7%; Score 81.2; DB 3; Length 4792;
Best Local Similarity 52.3%; Pred. No. 5.5e-15;
Matches 179; Conservative 0; Mismatches 163; Indels 0; Gaps 0;
Qy 510 GATAGTAATATTGTGATGTTATGCATTTTTCATTTCTGTATCCCTCAAGTCTCAA 569
Db 442 GAGAGCAATGTTACTTGTGTTTTCATTTCTCCATGTCAGTTTTCCTCCAGGATTA 501
Qy 570 CATCTTATTGAGATTCAACACTTGTAAAGTAGTATTGCAATTTGATGTTGACTCTG 629
Db 502 ATGTTACTAGAAAAAATAATCAATTAAGAACGACGGGTTGGGATTTGAAGGGGAC 561
Qy 630 AAGCTTTTCCATGACTATGGAGTTAGTATCAAGATGTTGAGGATCTTTTCAGATTTAG 689
Db 562 AAATCTTCGCTGATTTTTCAGCTCAAGTTGAGAGTTTGTGGAGCTGACCGATTTGCC 621
Qy 690 AACCAAAAAATTTGGTGAGATAAAAAATTTGGGCTTGCCTCACTAACCTGAGACTTGT 749
Db 622 AATGAAAGTTGAAAGTGCAGAGACCTTGGAGCCTCAATGCTCTGTTTAAACACGCTCT 681
Qy 750 TGCAGAGCTCTTGAAGCCAAACAGATCAGGCTTGGAACTGGAGTTTATTCCTCTG 809
Db 682 GGGAAACAACTTTTGAAGACAAAGTCCATCCGCTGCGAGCAATTTGGAGTAATTTCC 741

; Patent No. 6825336
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH OSTEOPOROSIS, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL000789
; CURRENT APPLICATION NUMBER: US/09/949,001
; PRIOR FILING DATE: 2003-01-15
; PRIOR APPLICATION NUMBER: 60/231,323
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 848
; SOFTWARE: FastSeq For Windows Version 4.0
; SEQ ID NO 29
; LENGTH: 143776
; TYPE: DNA
; ORGANISM: Human
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)..(143776)
; OTHER INFORMATION: n = A,T,C or G
US-09-949-001-29

Query Match 5.3%; Score 55.4; DB 4; Length 143776;
Best Local Similarity 60.1%; Pred. No. 1.2e-05;
Matches 92; Conservative 0; Mismatches 61; Indels 0; Gaps 0;

QY 545 TTCGTGATCCCTCAAGCTCCACATCTTATTGAAGATTCAACACTGTGAAGGTAGG 604
DB 33094 TACAGTTTTTCCCGAGGATTAAAAATGTTGCTTGAAATAAAGCAGTTAAAAAGGCAGG 33153

QY 605 TATTGGAATTGATGTGACTCTGTGAAGCTTTTCCATGACTATGAGTTAGTATCAAGA 664
DB 33154 TGTAGGAATTGAAGAGATCAGTGAAGACTTCTAGTGACTTTGATATCAATTGAAGA 33213

QY 665 TGTGAGGATCTTTCAGATTTAGCCAAACCAAAA 697
DB 33214 TTTTGTGGAGTTGACAGATGTTGCCAATAAAAA 33246

RESULT 11
US-09-949-001-35
; Sequence 35, Application US/09949001
; Patent No. 6825336
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH OSTEOPOROSIS, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL000789
; CURRENT APPLICATION NUMBER: US/09/949,001
; PRIOR FILING DATE: 2003-01-15
; PRIOR APPLICATION NUMBER: 60/231,323
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 848
; SOFTWARE: FastSeq For Windows Version 4.0
; SEQ ID NO 35
; LENGTH: 144034
; TYPE: DNA
; ORGANISM: Human
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)..(144034)
; OTHER INFORMATION: n = A,T,C or G
US-09-949-001-35

Query Match 5.3%; Score 55.4; DB 4; Length 144034;
Best Local Similarity 60.1%; Pred. No. 1.2e-05;
Matches 92; Conservative 0; Mismatches 61; Indels 0; Gaps 0;

QY 545 TTCGTGATCCCTCAAGCTCCACATCTTATTGAAGATTCAACACTGTGAAGGTAGG 604
DB 33094 TACAGTTTTTCCCGAGGATTAAAAATGTTGCTTGAAATAAAGCAGTTAAAAAGGCAGG 33153

QY 605 TATTGGAATTGATGTGACTCTGTGAAGCTTTTCCATGACTATGAGTTAGTATCAAGA 664

DB 33154 TGTAGGAATTGAAGGAGATCAGTGGAACTTCTACGTGACTTTGATATCAAAATTGAAGA 33213

QY 665 TGTGAGGATCTTTCAGATTTAGCCAAACCAAAA 697

DB 33214 TTTTGTGGAGTTGACAGATGTTGCCAATAAAAA 33246

RESULT 12
US-08-781-891-207
; Sequence 207, Application US/08781891
; Patent No. 6090620
; GENERAL INFORMATION:
; APPLICANT: Fu, Ying-Hui
; APPLICANT: Yu, Chang-En
; APPLICANT: Oshima, Junko
; APPLICANT: Mulligan, John T.
; APPLICANT: Schellenberg, Gerald D.
; TITLE OF INVENTION: GENE AND GENE PRODUCTS RELATED TO
; TITLE OF INVENTION: WERNER'S SYNDROME
; NUMBER OF SEQUENCES: 209
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: SEED and BERRY LLP
; STREET: 6300 Columbia Center, 701 Fifth Avenue
; CITY: Seattle
; STATE: Washington
; COUNTRY: USA
; ZIP: 98104-7092
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/781,891
; FILING DATE: 27-DEC-1996
; CLASSIFICATION: 800
; ATTORNEY/AGENT INFORMATION:
; NAME: No. 6090620tenburg Ph.D., Carol
; REGISTRATION NUMBER: 39,317
; REFERENCE/DOCKET NUMBER: 240052.419
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (206) 622-4900
; TELEFAX: (206) 682-6031
; INFORMATION FOR SEQ ID NO: 207:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 29604 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
US-08-781-891-207

Query Match 4.9%; Score 51.2; DB 3; Length 29604;
Best Local Similarity 56.5%; Pred. No. 9.6e-05;
Matches 95; Conservative 0; Mismatches 73; Indels 0; Gaps 0;

QY 545 TTCGTGATCCCTCAAGCTCTCCACATCTTATTGAAGATTCAACACTGTGAAGGTAGG 604
DB 19789 TTTAGTTTTTCCCGAGGATTAAAAATGTTTACTAGAAAACAAATCAATTAAGAGGCAGG 19848

QY 605 TATTGGAATTGATGTGACTCTGTGAAGCTTTTCCATGACTATGAGTTAGTATCAAGA 664
DB 19849 GGTGGGATTGAAGGGGACAGTGGAACTTCTGGTGATTTTGACGTCAAGTTGAGAG 19908

QY 665 TGTGAGGATCTTTCAGATTTAGCCAAACCAAAAATTGGTGAGATAA 712
DB 19909 TTTTGTGGAGCTGACGGATGTTGCCAATGAAAAGTAGGCGTAATAAA 19956

RESULT 13
US-09-618-166-207
; Sequence 207, Application US/09618166
; Patent No. 6583112

GENERAL INFORMATION:
APPLICANT: Fu, Ying-Hui
Yu, Chang-En
Oshima, Junko
Mulligan, John T.
Schellenberg, Gerald D.
TITLE OF INVENTION: GENE AND GENE PRODUCTS RELATED TO
WERNER'S SYNDROME
NUMBER OF SEQUENCES: 209
CORRESPONDENCE ADDRESS:
ADDRESSEE: Seed Intellectual Property Law Group
STREET: 701 Fifth Avenue, Suite 6300
CITY: Seattle
STATE: Washington
COUNTRY: USA
ZIP: 98104-7092
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/618,166
FILING DATE: 17-Jul-2000
CLASSIFICATION: <Unknown>
ATTORNEY/AGENT INFORMATION:
NAME: McMaister, David D.
REGISTRATION NUMBER: 33,963
REFERENCE/DOCKET NUMBER: 240052.419C1
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206) 622-4900
TELEFAX: (206) 682-6031
INFORMATION FOR SEQ ID NO: 207:
SEQUENCE DESCRIPTION: SEQ ID NO: 207:
US-09-618-166-207

Query Match 4.9%; Score 51.2; DB 4; Length 29604;
Best Local Similarity 56.5%; Pred. No. 9.6e-05;
Matches 95; Conservative 0; Mismatches 73; Indels 0; Gaps 0;
QY 545 TTCTGGTATCCTCAAGTCTCCACATCTTATGAGATTCAACACTTGTAAAGGTAGG 604
DB 19789 TTTAGTTTCCCCAGGATTAAAAATGTTACTAGAAACAAATCAATTAAGAAGGCAGG 19848
QY 605 TATTGGAATTGATGGTACTCTGTGAAGCTTTTCCATGACTATGAGTTAGTATCAAGA 664
DB 19849 GGTGGGATTGAAGGGACGAGTGGAACTCTGCTGATTTGACGTCAAGTTGGAGAG 19908
QY 665 TGTGAGATCTTTTCAGATTGAGCAACCAAAATTCGGTGAGATAA 712
DB 19909 TTTTGTGAGCTGACGGATGTGTCATGAAAGGTAGCGGTAAATAA 19956

RESULT 14
US-08-232-463-14
Sequence 14, Application US/08232463
Patent No. 5670367
GENERAL INFORMATION:
APPLICANT: DORNER, F.
APPLICANT: SCHEIFLINGER, F.
APPLICANT: FALKNER, F. G.
TITLE OF INVENTION: RECOMBINANT FOWLPOX VIRUS
NUMBER OF SEQUENCES: 52
CORRESPONDENCE ADDRESS:
ADDRESSEE: Foley & Lardner
STREET: 1800 Diagonal Road, Suite 500
CITY: Alexandria
STATE: VA

COUNTRY: USA
ZIP: 22313-0299
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/232,463
FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/07/935,313
FILING DATE:
APPLICATION NUMBER: EP 91 114 300.6
FILING DATE: 26-AUG-1991
ATTORNEY/AGENT INFORMATION:
NAME: BENT, Stephen A.
REGISTRATION NUMBER: 29,768
REFERENCE/DOCKET NUMBER: 30472/114 IMM
TELECOMMUNICATION INFORMATION:
TELEPHONE: (703) 836-9300
TELEFAX: (703) 683-4109
TELEX: 899149
INFORMATION FOR SEQ ID NO: 14:
SEQUENCE CHARACTERISTICS:
LENGTH: 7218 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
CLONE: pTZgpt-Fls
US-08-232-463-14

Query Match 4.7%; Score 49.2; DB 1; Length 7218;
Best Local Similarity 11.5%; Pred. No. 0.00017;
Matches 33; Conservative 140; Mismatches 113; Indels 0; Gaps 0;
QY 9 ATTAATTTTATTTTGTTCAGTAAAGAAATGTCATCGTCAAAATTGATCGACGAC 68
DB 992 ACTATTTTCTCTGTTGCCATACGCTCAGAAATTAATTCGAGCTTGCTCGAGTC 1051
QY 69 GCTTTTACAGAGGAGCTTCTCGCTATCGACGCCATCGAAGCTTCCTACAATTTCTCC 128
DB 1052 GAGGAGCTTCGATVV 1111
QY 129 CGTCTTCT 188
DB 1112 YY 1171
QY 189 GGCCACGAGGAGGATCAAAATCAATCCCAATATATCCGTCGCAATTCGCTGTTCC 248
DB 1172 YY 1231
QY 249 ATCACTTCTTCTACATCTTATAAAGATTCTCTCTCTCTCTCTCTCTCTCTCT 294
DB 1232 YY 1277

RESULT 15
US-09-949-001-104
Sequence 104, Application US/09949001
Patent No. 6825336
GENERAL INFORMATION:
APPLICANT: VENTER, J. Craig et al.
TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
WITH OSTEOPOROSIS, METHODS OF DETECTION AND USES THEREOF
FILE REFERENCE: CL000789
CURRENT APPLICATION NUMBER: US/09/949,001
PRIOR FILING DATE: 2003-01-15
PRIOR APPLICATION NUMBER: 60/231,323
PRIOR FILING DATE: 2000-09-08
NUMBER OF SEQ ID NOS: 848

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; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 104
; LENGTH: 601
; TYPE: DNA
; ORGANISM: Human
US-09-949-001-104

Query Match      4.3%; Score 45.2; DB 4; Length 601;
Best Local Similarity 58.0%; Pred. No. 0.00064;
Matches 80; Conservative 0; Mismatches 58; Indels 0; Gaps 0;

QY 712 AAAAATGGGCGCTTGCCCTCACTAACTGAGACACTGTTGTTGCAAGAGCTCCTGAAGCCAA 771
Db 306 AGACCTGGAGCGCTTAACAGTCTGGTTAAACACCTCTTAGGTAAACAGCTCCTGAAAGACA 365

QY 772 ACAGAAATCAGGCTTGGGAACCTGGGAGTTTATCCTCTGTCAAAGCAGCAGTTACAAATAG 831
Db 366 AGTCTATCCGCTGTAGCAATTGGAGTAAATTTCTCTCACTGAGGACCAGAAACTGTATG 425

QY 832 CAGCAACGAGATGCTTATG 849
Db 426 CAGCCACTGATGCTTATG 443
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Search completed: July 11, 2005, 09:36:55
Job time : 224 secs

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	Score	Match	Length			
1	352	23.6	1409	4	US-09-949-001-22	Sequence 22, Appl
2	352	23.6	1432	3	US-08-781-891-71	Sequence 71, Appl
3	352	23.6	1432	4	US-09-618-166-71	Sequence 71, Appl
4	352	23.6	1432	4	US-09-949-001-16	Sequence 16, Appl
5	339	22.7	1401	3	US-09-127-670-6	Sequence 6, Appl
6	330	22.1	1401	3	US-08-781-891-206	Sequence 206, Appl
7	330	22.1	1401	4	US-09-618-166-206	Sequence 206, Appl
8	175	11.7	186	4	US-09-270-767-3220	Sequence 3220, A
9	169.5	11.4	223	4	US-09-328-353-6289	Sequence 6289, Ap
10	94.5	6.3	858	4	US-09-248-796A-19082	Sequence 19082, A
11	93.5	6.3	661	4	US-09-248-796A-18480	Sequence 18480, A
12	93	6.2	2224	4	US-09-054-272-38	Sequence 38, Appl
13	93	6.2	3079	5	PCM-US94-00138-4	Sequence 4, Appl
14	92.5	6.2	375	4	US-09-270-767-42422	Sequence 42422, A
15	92.5	6.2	481	4	US-09-328-352-4475	Sequence 4475, Ap
16	91.5	6.1	1836	4	US-09-949-016-7432	Sequence 7432, Ap
17	89.5	6.0	260	4	US-09-270-767-33551	Sequence 33551, A
18	89.5	6.0	260	4	US-09-270-767-48768	Sequence 48768, A
19	89	6.0	930	3	US-09-134-001C-5314	Sequence 5314, Ap
20	89	6.0	930	4	US-09-386-962C-10	Sequence 10, Appl
21	87.5	5.9	471	4	US-09-248-796A-14787	Sequence 14787, A
22	87.5	5.9	1375	3	US-09-722-139-2	Sequence 2, Appl
23	87.5	5.9	1375	3	US-09-721-832-2	Sequence 2, Appl
24	87.5	5.9	1375	4	US-09-721-689-2	Sequence 2, Appl
25	86.5	5.8	348	1	US-07-598-845-2	Sequence 2, Appl
26	86.5	5.8	348	5	PCM-US93-11298-2	Sequence 2, Appl
27	86.5	5.8	480	3	US-08-987-367-2	Sequence 2, Appl

RESULT 6
US-08-781-891-206
; Sequence 206, Application US/08781891
; Patent No. 6090620
; GENERAL INFORMATION:
; APPLICANT: Fu, Ying-Hui
; APPLICANT: Yu, Chang-En
; APPLICANT: Oshima, Junko
; APPLICANT: Mulligan, John T.

ADDRESSEE: Seed Intellectual Property Law Group
STREET: 701 Fifth Avenue, Suite 6300
CITY: Seattle

Db 184 SQASVSLPPTVOAFHSMHESASNDSDATNITTPQKQKQKRLSVTSNTGENELKQLA 243
Qy 84 CRARFPFAMRFGGRILY---SKTATEVDKRAMQLIKVLDTRKDESGIAFVGLDIEWRPSF 140
Db 244 LRSSNIPLSLAQVKQLENDSTTTVSLEQSKMKNKETQQLFGVWVLLNSCDLAPT- 302
Qy 141 RGVLPKGK---VATVQICVDSNYCDVMHIFHSGIPOSLOHLIE--DSTLVKVGIGIDGDS 195
Db 303 --AVIPRRIYARYVQVCADNNLAPVS-----PASFGKLVKILYPNITTRRLGMRQGS 353
Qy 196 VKLFHDYGVSIKDVEDL 212
Db 354 --KHYCGIKLGTGDNM 368
RESULT 11
US-09-248-796A-18480
; Sequence 18480, Application US/09248796A
; Patent No. 6747137
; GENERAL INFORMATION:
; APPLICANT: Keith Weinstock et al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICAN
; FILE REFERENCE: 107196.132
; CURRENT APPLICATION NUMBER: US/09/248,796A
; CURRENT FILING DATE: 1999-07-12
; PRIOR FILING DATE: 1998-02-13
; PRIOR FILING DATE: 1998-02-13
; PRIOR APPLICATION NUMBER: US 60/074,725
; PRIOR APPLICATION NUMBER: US 60/096,409
; PRIOR FILING DATE: 1998-08-13
; NUMBER OF SEQ ID NOS: 28208
; SEQ ID NO 18480
; LENGTH: 661
; TYPE: PRT
; ORGANISM: Candida albicans
US-09-248-796A-18480
Query Match 6.3%; Score 93.5; DB 4; Length 661;
Best Local Similarity 19.7%; Pred. No. 0.32;
Matches 71; Conservative 44; Mismatches 98; Indels 147; Gaps 14;
Qy 3 SNNWIDDAFTBEELAIADAIEASYNFSSSSSSAAPTVQATTSVHGHEE----- 53
Db 107 NSNNNDNDNDIVLLTKD-----NFSRSSGLSGSPGSKVRETSASSMAETSKARKKQK 160
Qy 54 --DB-----NOIPNNIRQLPRSTSTSYKRPFLSRCRAENFPAM 92
Db 161 SAIDPITGEVNYELILNLPNFDMPYSQRKGLVKFSFESIDYSQFSLF---AKNYLGS 217
Qy 93 RFG-----GRILYSKTATVDKRAMQLIKVL 118
Db *218 SVGSAKTLKWSSSGCTGIASASSLSRRNRVGSNLNLAGRL-ARTSTDFPKLQAMKP- 275
Qy 119 DTKRDESGIAFVGLDIEWRPSFRKGVLPKGV-----ATVQICVD----- 157
Db 276 KYNVDEKCAIVLGHBL-----GKVGFGAWGTIRECTDQDCTTIRAIKVKST 323
Qy 158 -----SNYCDVMHIFHSGIPOSLOHLIEASTLVKVGIGIDGDSVKLFH 200
Db 324 RDPGGPGIAHSGNLNSKTDLTGSMKSKNPRVLEVPFKBIQIWK-----QLHH 373
Qy 201 DYGVSIKDVEDLSD-----LANQKIGD-----KKWGLASLTETLVC---KELLKPNRIRL 248
Db 374 DNLPLDIYETEDAIFCMNRINGTTLFEVVDVSGQFNARVNLICGLPLEYLFQQRHRL 433
RESULT 12
US-09-054-272-38
; Sequence 38, Application US/09054272
; Patent No. 6692909
; GENERAL INFORMATION:
; APPLICANT: Lander, Eric S.

; APPLICANT: Daley, George Q.
; APPLICANT: Cargill, Michele
; APPLICANT: Ireland, James S.
; APPLICANT: Rozen, Steven G.
; TITLE OF INVENTION: CODING SEQUENCE POLYMORPHISMS
; TITLE OF INVENTION: IN VASCULAR PATHOLOGY GENES
; NUMBER OF SEQUENCES: 59
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: HAMILTON, BROOK, SMITH & REYNOLDS, P.C.
; STREET: Two Militia Drive
; CITY: Lexington
; STATE: MA
; COUNTRY: USA
; ZIP: 02173
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: Windows 95
; SOFTWARE: FASTSEQ for Windows Version 2.0b
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/054,272
; FILING DATE: 01-APR-1998
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Granahan, Patricia
; REGISTRATION NUMBER: 32,227
; REFERENCE/DOCKET NUMBER: WHI98-05
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 781-861-6240
; TELEFAX: 781-861-9540
; TELEX:
; INFORMATION FOR SEQ ID NO: 38:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2224 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; FRAGMENT TYPE: internal
; US-09-054-272-38
Query Match 6.2%; Score 93; DB 4; Length 2224;
Best Local Similarity 19.2%; Pred. No. 2.4;
Matches 58; Conservative 42; Mismatches 124; Indels 78; Gaps 11;
Qy 4 SNNWIDDAFTBEELAIADAIEASYNFSSSSSSAAPTVQATTSVHGHEEDPNQIPNNIR 63
Db 126 ASYLDHTFPAEKM--DDAVAPGREYTVSEWSISDSGPT-----HDDPP--CLTHIY 172
Qy 64 RQLPRSTSTSYKRPFLSRCRAENFPAMRFGGRILYSKTATEVDKRAMQLIKVLDTKRD 123
Db 173 YSHENLIEDFNSGLIGLPLICK-----GTLTEGGTQKTFDKQIVLLFAVFEDESK- 222
Qy 124 ESGIAFVGLDIEWRPSFR-----KGVLPKGVATVQICVDSNYCDVMHIFHSGIPOSLOHL 178
Db 223 -----SNQSQSSLSMYTVNGYNGTWPDI TVCA-----HDIHSHWLLGM 260
Qy 179 IEDSTLVKVGIGIDGDSVKLFHDYGVSIKDVEDLSDLANQKIGDKKWLASLT----- 232
Db 261 SSGPEL--FSIHFGQVLEQNHKKVSAITLVSATSTANMTVGPGEKWIISLTPKHLQA 318
Qy 233 -----ETLVCKELLKPNRIRLGNWEPYPLSKQOL-QYAAT-----DAYASW 272
Db 319 GMOAYIDIKNCPKTKRLKKITREQRHMRKWEYFAAEVEIVDYAPVIPANMDKKYRSQ 378
Qy 273 HL 274
Db 379 HL 380

RESULT 13

PCT-US94-00198-4
; Sequence 4, Application PC/TUS9400198
; GENERAL INFORMATION:
; APPLICANT: Schering Corp.
; TITLE OF INVENTION: RAS Associated GAP Proteins
; NUMBER OF SEQUENCES: 6
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Schering Corp.
; STREET: 1 Girald Farms
; CITY: Madison
; STATE: New Jersey
; COUNTRY: USA
; ZIP: 94304-1104
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: Macintosh
; OPERATING SYSTEM: 6.0.8
; SOFTWARE: Microsoft Word 5.1a
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US94/00198
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/004,824
; FILING DATE: 15-JAN-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Lunn, Paul G.
; REGISTRATION NUMBER: 32,743
; REFERENCE/DOCKET NUMBER: DX0352 PCT
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (201)822-7255
; TELEFAX: (201)822-7039
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 3079 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; ORIGINAL SOURCE:
; ORGANISM: Saccharomyces cerevisiae
PCT-US94-00198-4

Query Match 6.2%; Score 93; DB 5; Length 3079;
Best Local Similarity 19.3%; Pred. No. 4.1; Mismatches 112; Indels 84; Gaps 10;
Matches 57; Conservative 43;
QY 9 DAFTEELLALDAIEASYNFSSSSSSAAPTVOATTSVHGHEEDPNQIPNNIRQLRP 68
Db 1976 DDFYKTFLLDDVLGQLGQPKWFSN-----EPIYIREHMDYPELYEFMNRHAF 2028
QY 69 SITSTSY-----KRPPLSRCARNPPAMRFGGRILYSKTATEVDKRAMOLIK-- 116
Db 2029 NIETSTAYSPSVHESTSEGIPIITLTMSNF-----SDRHVDIDTVAYKFLQIY 2077
QY 117 -----VLDTRDESGIAFVGLDIEWRSPFRKGVLPKQVATVQICVDSNYCDVMHI 166
Db 2078 ARIWTKKCLIIDCTEFDEG-----GLDMRKFTSLVMGLLP-EVAP-KNCIGCYFNVNET 2131
QY 167 F-----HSGIPQSLQHLIEDSTLVKVGIGIDGDSVKLFPHDYGVSIKQVED 211
Db 2132 FMDNYGKCLDKDNVYVSSKIPHYFINSNSDEGLMK-SVGITGQGLKVLQDIRVSLHDITL 2190
QY 212 LSDLANQKIGGKKWGLASLTETLVCKELLKPNRRLGNWEPYPLSKQOLQVAATD 267
Db 2191 YDEKENR-----FTVPSLKIGDIYFQVLHETPRQYKIRD 2224

RESULT 14

US-09-270-767-42422
; Sequence 42422, Application US/09270767
; Patent No. 6703491

; GENERAL INFORMATION:

; APPLICANT: Homburger et al.
; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
; FILE REFERENCE: File Reference: 7326-094
; CURRENT APPLICATION NUMBER: US/09/270,767
; CURRENT FILING DATE: 1999-03-17
; NUMBER OF SEQ ID NOS: 62517
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 42422
; LENGTH: 375
; TYPE: PRT
; ORGANISM: Drosophila melanogaster
; FEATURE:
; OTHER INFORMATION: Xaa means any amino acid
US-09-270-767-42422

Query Match 6.2%; Score 92.5; DB 4; Length 375;
Best Local Similarity 24.4%; Pred. No. 0.17;
Matches 41; Conservative 24; Mismatches 48; Indels 55; Gaps 8;
QY 56 NOIPNNIRQLPRSTSTSYK-----FPLSRCARNPPAMR-----FGGRIL 99
Db 149 NQLNLSERTWTRE--SAVATKRWAILAAGVLVYVLRHRLLCPLRRVWSEF----- 202
QY 100 YSKTATEVDKRAMOLIKVL-----DTRDESGIAFVGLDIEW-----RPSFRK 142
Db 203 -----SLVPQRIEIVINSVQDPTTQWLVNLKLNHCQTPKVLGDFDCEWITVGSRRP----- 253
QY 143 GVLPGKATVQICVDSNYCDVMHIFH-SGIPQSLQHLIEDSTLVKVG 189
Db 254 -----VALLQSSHRLGALFRLCHMKQIPQDLRLDLEDDAVIKGV 295

RESULT 15

US-09-328-352-4475
; Sequence 4475, Application US/09328352
; Patent No. 6562958

; GENERAL INFORMATION:

; APPLICANT: Gary L. Breton et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO ACINETOBACTER
; FILE REFERENCE: BAUMANNII FOR DIAGNOSTICS AND THERAPEUTICS
; CURRENT APPLICATION NUMBER: US/09/328,352
; CURRENT FILING DATE: 1999-06-04
; NUMBER OF SEQ ID NOS: 8252
; SEQ ID NO 4475
; LENGTH: 481
; TYPE: PRT
; ORGANISM: Acinetobacter baumannii
US-09-328-352-4475

Query Match 6.2%; Score 92.5; DB 4; Length 481;
Best Local Similarity 21.5%; Pred. No. 0.25;
Matches 46; Conservative 40; Mismatches 83; Indels 45; Gaps 8;
QY 63 RROLPRSTSTSYKRPPLSRCARNPPAMRFGGRILYSKTATEVDKRAMOLIKVLDTKR 122
Db 142 RHRQPLGVVAISITPNWELMTAVHIMPALR-AGNVLSKPSSEYTPSLTLRCLCEIIQQEV 200
QY 123 DESGIAFY-----GLDIEWRSPFRKGVLPKQVATVQICVDSNYCDVMHIFHSGIPQSLQ 176
Db 201 PAGVISIVVGAIGEALSSHPDVQKVVTGSTRGQ-----HIM-AGAAQQLK 248
QY 177 HLI-----EDSTLVKVGIGIDGDSVKLFH-----DYGVSIKDV-----EDLS 213
Db 249 HLTLELGNDAGIVLPDANIDEIADKIFNMAFLNAGQTCALKRLYVHESQVEALSQKLA 308
QY 214 DLANKIGGKKWGLASLTETLVCKELLKPNRIR 247
Db 309 DIANAQVVGD---GMASTTFGPVQNMQYKNVK 339

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Job time : 52 secs

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GenCore version 5.1.6
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OM protein - protein search, using sw model

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984.633 Million cell updates/sec

Title: US-09-896-186C-24

Perfect score: 1491

Sequence: 1 MSSSNWIDDAFTBEELLAID.....YASWHLYKVLKDLPAVSGS 288

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Searched: 1726218 seqs, 386331768 residues

Total number of hits satisfying chosen parameters: 1726218

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

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- 12: /cgn2_6/ptodata/1/pubpaa/US09_NEW_PUB.pep.*
- 13: /cgn2_6/ptodata/1/pubpaa/US10A_PUBCOMB.pep.*
- 14: /cgn2_6/ptodata/1/pubpaa/US10B_PUBCOMB.pep.*
- 15: /cgn2_6/ptodata/1/pubpaa/US10C_PUBCOMB.pep.*
- 16: /cgn2_6/ptodata/1/pubpaa/US10D_PUBCOMB.pep.*
- 17: /cgn2_6/ptodata/1/pubpaa/US10E_PUBCOMB.pep.*
- 18: /cgn2_6/ptodata/1/pubpaa/US10_NEW_PUB.pep.*
- 19: /cgn2_6/ptodata/1/pubpaa/US11A_PUBCOMB.pep.*
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- 21: /cgn2_6/ptodata/1/pubpaa/US60_NEW_PUB.pep.*
- 22: /cgn2_6/ptodata/1/pubpaa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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3	1439.5	96.5	313	10	US-09-896-186B-2
4	676.5	45.4	290	9	US-09-906-226-16
5	666.5	44.7	268	15	US-10-424-599-227379
6	411	27.6	256	16	US-10-437-963-118286
7	372.5	25.0	257	16	US-10-425-115-268420
8	352	23.6	1405	16	US-10-741-601-299
9	352	23.6	1405	17	US-10-741-600-847
10	352	23.6	1406	16	US-10-741-601-300
11	352	23.6	1406	17	US-10-741-600-848

12	352	23.6	1432	10	US-09-896-186B-18	Sequence 18, Appl
13	352	23.6	1432	15	US-10-374-077-71	Sequence 71, Appl
14	352	23.6	1432	16	US-10-741-601-302	Sequence 302, App
15	352	23.6	1432	17	US-10-741-600-850	Sequence 850, App
16	352	23.6	1436	16	US-10-741-601-301	Sequence 301, App
17	352	23.6	1436	17	US-10-741-600-849	Sequence 849, App
18	330.5	22.2	643	9	US-09-906-226-49	Sequence 49, App
19	330	22.1	1401	15	US-10-374-077-206	Sequence 206, App
20	270	18.1	216	9	US-09-906-226-38	Sequence 38, Appl
21	254	17.0	234	9	US-09-906-226-14	Sequence 14, Appl
22	253.5	17.0	238	15	US-10-424-599-238476	Sequence 238476, A
23	249.5	16.7	210	15	US-10-425-114-37706	Sequence 37706, A
24	249.5	16.7	213	9	US-09-906-226-10	Sequence 10, Appl
25	248	16.6	206	16	US-10-425-115-188902	Sequence 188902, A
26	245	16.4	236	15	US-10-425-114-71107	Sequence 71107, A
27	238	16.0	197	9	US-09-906-226-12	Sequence 12, Appl
28	238	16.0	201	16	US-10-437-963-143533	Sequence 143533, A
29	236.5	15.9	234	9	US-09-906-226-4	Sequence 4, Appl
30	229.5	15.4	210	9	US-09-906-226-40	Sequence 40, Appl
31	229.5	15.4	211	16	US-10-437-963-145011	Sequence 145011, A
32	227	15.2	202	16	US-10-425-115-337105	Sequence 337105, A
33	227	15.2	210	16	US-10-425-115-337102	Sequence 337102, A
34	225.5	15.1	287	16	US-10-437-963-110472	Sequence 110472, A
35	218	14.6	201	9	US-09-906-226-2	Sequence 2, Appl
36	218	14.6	204	9	US-09-906-226-24	Sequence 24, Appl
37	218	14.6	204	16	US-10-425-115-247258	Sequence 247258, A
38	212	14.2	208	15	US-10-424-599-191095	Sequence 191095, A
39	191.5	12.8	571	9	US-09-906-226-42	Sequence 42, Appl
40	188	12.6	159	16	US-10-437-963-150626	Sequence 150626, A
41	188	12.6	205	15	US-10-424-599-229443	Sequence 229443, A
42	182.5	12.2	621	16	US-10-479-284-18	Sequence 18, Appl
43	181.5	12.2	572	9	US-09-906-226-32	Sequence 32, Appl
44	179.5	12.0	582	9	US-09-906-226-55	Sequence 55, Appl
45	179.5	12.0	582	10	US-09-896-186B-36	Sequence 36, Appl

ALIGNMENTS

RESULT 1
US-09-896-186B-24
; Sequence 24, Application US/09896186B
; Publication No. US20030166227A1
; GENERAL INFORMATION:
; APPLICANT: Joshua Z. Levin
; APPLICANT: Ken Phillips
; APPLICANT: Greg Budziszewski
; APPLICANT: Fred Meins
; APPLICANT: Zhenya Glazov
; TITLE OF INVENTION: Methods of Controlling Gene Expression
; FILE REFERENCE: PB/5-31481A
; CURRENT APPLICATION NUMBER: US/09/896.186B
; CURRENT FILING DATE: 2002-04-04
; NUMBER OF SEQ ID NOS: 38
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 24
; LENGTH: 288
; TYPE: PRT
; ORGANISM: Arabidopsis thaliana
US-09-896-186B-24

Query Match	100.0%	Score 1491;	DB 10;	Length 288;
Best Local Similarity	100.0%	Pred. No. 2e-146;		
Matches 288;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;
Qy	1	MSSSNWIDDAFTBEELLAIDAEISYNFSSSSSSAAPTVQATTSHGHEEDNQIPN	60	
Db	1	MSSSNWIDDAFTBEELLAIDAEISYNFSSSSSSAAPTVQATTSHGHEEDNQIPN	60	
Qy	61	NIRQLPRSTTSYKRFPLSRCRANFPAMRGGRIILYKTKATEVDKRAMOLIKVLDT	120	
Db	61	NIRQLPRSTTSYKRFPLSRCRANFPAMRGGRIILYKTKATEVDKRAMOLIKVLDT	120	

QY 121 KRDESGIAFVGLDIEWRPSFRKGVLPKGVATVQICVDSNYCDVMHIFHSGIPQSLQHLIE 180
DB 121 KRDESGIAFVGLDIEWRPSFRKGVLPKGVATVQICVDSNYCDVMHIFHSGIPQSLQHLIE 180
QY 181 DSTLVKVGIGIDGDSVKLFHDYGVSIKDVEDLSLANOKIGDKKWKGLASLTETLVCKEL 240
DB 181 DSTLVKVGIGIDGDSVKLFHDYGVSIKDVEDLSLANOKIGDKKWKGLASLTETLVCKEL 240
QY 241 LKPNRIRLGNWEFYPPLSKQQLQYAATDAYASWHLYKVLKDLPAVSGS 288
DB 241 LKPNRIRLGNWEFYPPLSKQQLQYAATDAYASWHLYKVLKDLPAVSGS 288

RESULT 2
US-09-906-226-50
Query Match 96.5%; Score 1439.5; DB 9; Length 313;
Best Local Similarity 95.3%; Pred. No. 5.4e-141;
Matches 281; Conservative 1; Mismatches 4; Indels 9; Gaps 1;
GENERAL INFORMATION:
APPLICANT: Butler, Karla
APPLICANT: Cahoon, Rebecca E.
APPLICANT: Rafalski, Antoni
APPLICANT: Sakai, Hajime
TITLE OF INVENTION: Plant RNased-Like Genes
FILE REFERENCE: B1467 US NA
CURRENT APPLICATION NUMBER: US/09/906,226
CURRENT FILING DATE: 2001-07-16
PRIOR APPLICATION NUMBER: 60/218993
PRIOR FILING DATE: July 17, 2000
NUMBER OF SEQ ID NOS: 57
SOFTWARE: Microsoft Office 97
SEQ ID NO 50
LENGTH: 313
TYPE: PRT
ORGANISM: Arabidopsis thaliana
US-09-906-226-50

Query Match 96.5%; Score 1439.5; DB 9; Length 313;
Best Local Similarity 95.3%; Pred. No. 5.4e-141;
Matches 281; Conservative 1; Mismatches 4; Indels 9; Gaps 1;
GENERAL INFORMATION:
APPLICANT: Butler, Karla
APPLICANT: Cahoon, Rebecca E.
APPLICANT: Rafalski, Antoni
APPLICANT: Sakai, Hajime
TITLE OF INVENTION: Plant RNased-Like Genes
FILE REFERENCE: B1467 US NA
CURRENT APPLICATION NUMBER: US/09/906,226
CURRENT FILING DATE: 2001-07-16
PRIOR APPLICATION NUMBER: 60/218993
PRIOR FILING DATE: July 17, 2000
NUMBER OF SEQ ID NOS: 57
SOFTWARE: Microsoft Office 97
SEQ ID NO 50
LENGTH: 313
TYPE: PRT
ORGANISM: Arabidopsis thaliana
US-09-906-226-50

QY 121 KRDESGIAFVGLDIEWRPSFRKGVLPKGVATVQICVDSNYCDVMHIFHSGIPQSLQHLIE 180
DB 121 KRDESGIAFVGLDIEWRPSFRKGVLPKGVATVQICVDSNYCDVMHIFHSGIPQSLQHLIE 180
QY 181 DSTLVKVGIGIDGDSVKLFHDYGVSIKDVEDLSLANOKIGDKKWKGLASLTETLVCKEL 240
DB 181 DSTLVKVGIGIDGDSVKLFHDYGVSIKDVEDLSLANOKIGDKKWKGLASLTETLVCKEL 240
QY 241 LKPNRIRLGNWEFYPPLSKQQLQYAATDAYASWHLYKVLKDLPAVSGS 288
DB 241 LKPNRIRLGNWEFYPPLSKQQLQYAATDAYASWHLYKVLKDLPAVSGS 288

RESULT 3
US-09-896-186B-2
Query Match 45.4%; Score 676.5; DB 9; Length 290;
Best Local Similarity 49.3%; Pred. No. 1.6e-61;
Matches 139; Conservative 49; Mismatches 63; Indels 31; Gaps 6;
GENERAL INFORMATION:
APPLICANT: Joshua Z. Levin
APPLICANT: Ken Phillips
APPLICANT: Greg Budziszewski
APPLICANT: Fred Meins
APPLICANT: Zhenya Glazov
TITLE OF INVENTION: Methods of Controlling Gene Expression
FILE REFERENCE: PB/5-31481A

QY 121 KRDESGIAFVGLDIEWRPSFRKGVLPKGVATVQICVDSNYCDVMHIFHSGIPQSLQHLIE 180
DB 121 KRDESGIAFVGLDIEWRPSFRKGVLPKGVATVQICVDSNYCDVMHIFHSGIPQSLQHLIE 180
QY 181 DSTLVKVGIGIDGDSVKLFHDYGVSIKDVEDLSLANOKIGDKKWKGLASLTETLVCKEL 240
DB 181 DSTLVKVGIGIDGDSVKLFHDYGVSIKDVEDLSLANOKIGDKKWKGLASLTETLVCKEL 240
QY 241 LKPNRIRLGNWEFYPPLSKQQLQYAATDAYASWHLYKVLKDLPAVSGS 288
DB 241 LKPNRIRLGNWEFYPPLSKQQLQYAATDAYASWHLYKVLKDLPAVSGS 288

Query Match 96.5%; Score 1439.5; DB 10; Length 313;
Best Local Similarity 95.3%; Pred. No. 5.4e-141;
Matches 281; Conservative 1; Mismatches 4; Indels 9; Gaps 1;
GENERAL INFORMATION:
APPLICANT: Butler, Karla
APPLICANT: Cahoon, Rebecca E.
APPLICANT: Rafalski, Antoni
APPLICANT: Sakai, Hajime
TITLE OF INVENTION: Plant RNased-Like Genes
FILE REFERENCE: B1467 US NA
CURRENT APPLICATION NUMBER: US/09/906,226
CURRENT FILING DATE: 2001-07-16
PRIOR APPLICATION NUMBER: 60/218993
PRIOR FILING DATE: July 17, 2000
NUMBER OF SEQ ID NOS: 57
SOFTWARE: Microsoft Office 97
SEQ ID NO 16
LENGTH: 290
TYPE: PRT
ORGANISM: Glycine max
US-09-906-226-16

Query Match 45.4%; Score 676.5; DB 9; Length 290;
Best Local Similarity 49.3%; Pred. No. 1.6e-61;
Matches 139; Conservative 49; Mismatches 63; Indels 31; Gaps 6;
GENERAL INFORMATION:
APPLICANT: Joshua Z. Levin
APPLICANT: Ken Phillips
APPLICANT: Greg Budziszewski
APPLICANT: Fred Meins
APPLICANT: Zhenya Glazov
TITLE OF INVENTION: Methods of Controlling Gene Expression
FILE REFERENCE: PB/5-31481A

```
QY 183 TLVKVGIGDGSVKLFHDYGVSIKDVEDLSLANQIKGGDKKWKGLASITETLVCKELK 242
DB 173 TVLVKGAGIDGDAVKVFRDYNISVKGVTDLSPHANGKLGDDHKWGLASITETLVCKELK 232
QY 243 PNRIRLGNWEFPLSKQOLQYAAATDAYASWHLYKVLKOLPDA 284
DB 233 PNRIRLGNWEAPVLSKEQLEYAATAFAFASWCLYQAIKOLPDA 274

RESULT 5
US-10-424-599-227379
; Sequence 227379, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa Thomas J
; APPLICANT: Kovalic David K
; APPLICANT: Zhou Yihua
; APPLICANT: Cao Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 227379
; LENGTH: 268
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_47352C.1.pap
US-10-424-599-227379

Query Match 44.7%; Score 666.5; DB 15; Length 268;
Best Local Similarity 51.1%; Pred. No. 1.6e-60;
Matches 134; Conservative 46; Mismatches 61; Indels 21; Gaps 5;

QY 29 SRSSSSSSAAPTVQATTSVHGHEEDPNQIPNNIRRLQPLSI-----TSSTSYKRFPLSR 83
DB 6 SEASLSNNKKRP-----FNDHTHTP-----RRLEKSLIALQHNPASSFSHP-PP 50
QY 84 CSAR-NFPAMRFGGRILYKSTATEVDKRAMQLIKVLDTRKDESGIAFVGLDIEWRPSFRK 142
DB 51 CDSRMTLPWKSGQISYRTFDVEKAATKLLQILQEKTTDMQTAIGFDIEWKPTFRK 110
QY 143 GVLPGKVATVQICVDSNYCDVMHIFHSGIPQSLQHLIEDSTLVKVGIGDGSVKLFHDY 202
DB 111 GVPFGKVAVMQICGTRHCHVLIHSGIPQSLQHLIEDSTLVKVGAGIDGDAVKVFRDY 170
QY 203 GYSIKDVEDLSLANQIKGGDKKWKGLASITETLVCKELKPNRIRLGNWEFPLSKQOLQ 262
DB 171 NISVKGVTDLSPHANGKLGDDHKWGLASITETLVCKELKPNRIRLGNWEAPVLSKEQLE 230
QY 263 YAATDAYASWHLYKVLKOLPDA 284
DB 231 YAATDAFASWCLYQAIKOLPDA 252

RESULT 6
US-10-437-963-118286
; Sequence 118286, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Barbazuk, Brad
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
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; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437,963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 118286
; LENGTH: 256
; TYPE: PRT
; ORGANISM: Oryza sativa
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT4530_21612C.1.pap
US-10-437-963-118286
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Query Match 27.6%; Score 411; DB 16; Length 256;
Best Local Similarity 37.2%; Pred. No. 6.2e-34;
Matches 103; Conservative 36; Mismatches 76; Indels 62; Gaps 7;

QY 9 DAFTEEELLAIATAEASYNFSSSSSSAAPTVQATTSVHGHEEDPNQIPNNIRRLQPL 67
DB 27 DAAEAELOQIAEAAAYAAAKRRRLPDWPSNPVTASASAGSGCSAPPWPAP----- 78
QY 68 RSITSSTSYKRFPLSRCARNFPMRFGGRILYKSTATEVDKRAMQLIKVLDTRKDESGI 127
DB 79 ----SPPAFR-----GNVKARYQPM-FNGSIVYCTPSKVEKATRDILCKIETMK-ASQ 128
QY 128 AFVGLDIEWRPSFRKGVLPKGVATVQICVDSNYCDVMHIFHSGIPQSLQHLIEDSTLVK 187
DB 129 VSLGFDLEWRPFPRR-----VQV 146
QY 188 GIGIDGDSVKLFHDYGVSIKDVEDLSLANQIKG-GDKKWKGLASITETLVCKELKPNRI 246
DB 147 GICIDNDARKMFNDYDVHVQPLMDLSNLANAKLGGPPKRWLSLASLTEMVTCRELKPSNI 206
QY 247 RLGNWEFPLSKQOLQYAAATDAYASWHLYKVLKOLPDA 283
DB 207 RMGNWEAVLSKQOLQYAAATDAYISWHLYEVLQSLPD 243
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RESULT 7
US-10-425-115-268420
; Sequence 268420, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants
; FILE REFERENCE: 38-21(53222)B
; CURRENT APPLICATION NUMBER: US/10/425,115
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 268420
; LENGTH: 257
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: MRT4577_1763C.1.pap
US-10-425-115-268420
```

```
Query Match 25.0%; Score 372.5; DB 16; Length 257;
Best Local Similarity 38.5%; Pred. No. 6.4e-30;
Matches 92; Conservative 41; Mismatches 81; Indels 25; Gaps 8;

QY 5 NWIDDAFTEELLAIATAEASYNFSSSSSSAAPTVQATTSVHGHEEDPNQIPNN 61
DB 38 HW-DDA-AEAELOQIAEAAAYASASAKRRRLPDWTSPPS-----SPSYHLH----- 81
QY 62 IRRQLPSITSSTSY---KRFPLSRCARNFPMRFGGRILYKSTATETVCKRAMQLIKVL 118
DB 82 -RSQNPVSSGSGTSPSLTPHTPDQNVARR-QQISFSGKIVYCTPTPEAKAATDILLKI 139
QY 119 DTKRDESGIAFVGLDIEWRPSFRKGVLPKGVATVQICVDSNYCDVMHIFHSGIPQSLQHL 178
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Query Match 23.6%; Score 352; DB 17; Length 1406;
Best Local Similarity 37.7%; Pred. No. 1.1e-26;
Matches 75; Conservative 41; Mismatches 75; Indels 8; Gaps 3;
QY 88 NPPAMFGGRILYSKTATEVDKRAMQLIKVLTDRDESGIAFVGLDIEWRPSFRKGVLP 147
Db 43 DLPFLEFTGSIVSYDASDCSFLSE-----DISMSLSGDGVVGFDMWPPPLYNRGKL-G 95
QY 148 KVATVQICVDSNYCDVMHIFHSGI-PQSLQHLIEDSTLVKVGIGIDGDSVKLFHDYGVSI 206
Db 96 KVALIQLCVSESKCYLFHVSSMSVFPQGLKMLLENKAVKAGVGGIEGQWKLRRDFDIKL 155
QY 207 KOVEDLSLANOKIGGDKKWLGLASLTETLVCKELLKPNRIRLGNWFEYPLSKQQLQYAA 266
Db 156 KNFVELTDVANKKLCCTETWSLSNLSVHLGKQLLKDKSIRCSNWSKFLPTDQKLYAAT 215
QY 267 DAYASWHLYKVLKOLPDVAV 285
Db 216 DAYAGFIIRNLEILDDTV 234

RESULT 12

US-09-896-186B-18
; Sequence 18, Application US/09896186B
; Publication No. US20030166227A1
; GENERAL INFORMATION:
; APPLICANT: Joshua Z. Levin
; APPLICANT: Ken Phillips
; APPLICANT: Greg Budziszewski
; APPLICANT: Fred Meins
; APPLICANT: Zhenya Glazov
; TITLE OF INVENTION: Methods of Controlling Gene Expression
; FILE REFERENCE: PB/5-31481A
; CURRENT APPLICATION NUMBER: US/09/896,186B
; CURRENT FILING DATE: 2002-04-04
; NUMBER OF SEQ ID NOS: 38
; SOFTWARE: Patent In Ver. 2.1
; SEQ ID NO 18
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-896-186B-18

Query Match 23.6%; Score 352; DB 10; Length 1432;
Best Local Similarity 37.7%; Pred. No. 1.1e-26;
Matches 75; Conservative 41; Mismatches 75; Indels 8; Gaps 3;
QY 88 NPPAMFGGRILYSKTATEVDKRAMQLIKVLTDRDESGIAFVGLDIEWRPSFRKGVLP 147
Db 43 DLPFLEFTGSIVSYDASDCSFLSE-----DISMSLSGDGVVGFDMWPPPLYNRGKL-G 95
QY 148 KVATVQICVDSNYCDVMHIFHSGI-PQSLQHLIEDSTLVKVGIGIDGDSVKLFHDYGVSI 206
Db 96 KVALIQLCVSESKCYLFHVSSMSVFPQGLKMLLENKAVKAGVGGIEGQWKLRRDFDIKL 155
QY 207 KOVEDLSLANOKIGGDKKWLGLASLTETLVCKELLKPNRIRLGNWFEYPLSKQQLQYAA 266
Db 156 KNFVELTDVANKKLCCTETWSLSNLSVHLGKQLLKDKSIRCSNWSKFLPTDQKLYAAT 215
QY 267 DAYASWHLYKVLKOLPDVAV 285
Db 216 DAYAGFIIRNLEILDDTV 234

RESULT 13

US-10-374-077-71
; Sequence 71, Application US/10374077
; Publication No. US20040006779A1
; GENERAL INFORMATION:
; APPLICANT: Fu, Ying-Hui
; Yu, Chang-En
; Oshima, Junko

Mulligan, John T.
Schellenberg, Gerald D.
TITLE OF INVENTION: ANTIBODIES AGAINST GENE PRODUCTS RELATED TO
WERNER'S SYNDROME
NUMBER OF SEQUENCES: 209
CORRESPONDENCE ADDRESS:
ADDRESSEE: Seed Intellectual Property Law Group
STREET: 701 Fifth Avenue, Suite 6300
CITY: Seattle
STATE: Washington
COUNTRY: USA
ZIP: 98104-7092
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/374,077
FILING DATE: 25-Feb-2003
CLASSIFICATION: <Unknown>
ATTORNEY/AGENT INFORMATION:
NAME: Roseman, Stephen
REGISTRATION NUMBER: 43,058
REFERENCE/DOCKET NUMBER: 100107.401D1
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206) 622-4900
TELEFAX: (206) 682-6031
INFORMATION FOR SEQ ID NO: 71:
SEQUENCE CHARACTERISTICS:
LENGTH: 1432 amino acids
TYPE: amino acid
STRANDEDNESS: <Unknown>
TOPOLOGY: linear
SEQUENCE DESCRIPTION: SEQ ID NO: 71:
US-10-374-077-71

Query Match 23.6%; Score 352; DB 15; Length 1432;
Best Local Similarity 37.7%; Pred. No. 1.1e-26;
Matches 75; Conservative 41; Mismatches 75; Indels 8; Gaps 3;
QY 88 NPPAMFGGRILYSKTATEVDKRAMQLIKVLTDRDESGIAFVGLDIEWRPSFRKGVLP 147
Db 43 DLPFLEFTGSIVSYDASDCSFLSE-----DISMSLSGDGVVGFDMWPPPLYNRGKL-G 95
QY 148 KVATVQICVDSNYCDVMHIFHSGI-PQSLQHLIEDSTLVKVGIGIDGDSVKLFHDYGVSI 206
Db 96 KVALIQLCVSESKCYLFHVSSMSVFPQGLKMLLENKAVKAGVGGIEGQWKLRRDFDIKL 155
QY 207 KOVEDLSLANOKIGGDKKWLGLASLTETLVCKELLKPNRIRLGNWFEYPLSKQQLQYAA 266
Db 156 KNFVELTDVANKKLCCTETWSLSNLSVHLGKQLLKDKSIRCSNWSKFLPTDQKLYAAT 215
QY 267 DAYASWHLYKVLKOLPDVAV 285
Db 216 DAYAGFIIRNLEILDDTV 234

RESULT 14

US-10-741-601-302
; Sequence 302, Application US/10741601
; Publication No. US20040166519A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; STENOSIS, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001500
; CURRENT APPLICATION NUMBER: US/10/741,601
; CURRENT FILING DATE: 2003-12-22
; NUMBER OF SEQ ID NOS: 26415
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 302
; LENGTH: 1432

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; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-741-601-302

Query Match      23.6%; Score 352; DB 16; Length 1432;
Best Local Similarity 37.7%; Pred. No. 1.1e-26;
Matches 75; Conservative 41; Mismatches 75; Indels 8; Gaps 3;

QY 88 NFPAMRFGGRILYSKTATVEVDKRAMQLIKVLDTKRDESGIAFVGLDIEWRPSFRKGVLP 147
Db 43 DLPFLEFTGSIVSYDASDCSFLSE-----DISMSLSDGDVVGFDMWPPLYNRGKL-G 95

QY 148 KVATVQICVDSNYCDVMHIFHSGI-PQSLQHLIEDSTLVKVGIGIDGSDVKLFHDYGVSI 206
Db 96 KVALIQLCVSESKCYLFHVSSMSVFPQGLKMLLENKAVKAGVGIEGDQWKLRLDFDIKL 155

QY 207 KVEDLSDLANQKIGGDKKWLASLTETLVCKELLKPNRIRLGNWFEFPLSKQQLQYAAAT 266
Db 156 KNFVELTDVANKKLTCTETWSLSLVKHLGQLLKDKSIRCSNNSKFPLTBDQKLYAAT 215

QY 267 DAYASWHLYKVLKDLPLDAV 285
Db 216 DAYAGFIIRNLEILDVT 234

RESULT 15
US-10-741-600-850
; Sequence 850, Application US/10741600
; Publication No. US20050026169A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: MYOCARDIAL INFARCTION, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001499
; CURRENT APPLICATION NUMBER: US/10/741,600
; CURRENT FILING DATE: 2003-12-22
; NUMBER OF SEQ ID NOS: 73997
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 850
; LENGTH: 1432
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-741-600-850

Query Match      23.6%; Score 352; DB 17; Length 1432;
Best Local Similarity 37.7%; Pred. No. 1.1e-26;
Matches 75; Conservative 41; Mismatches 75; Indels 8; Gaps 3;

QY 88 NFPAMRFGGRILYSKTATVEVDKRAMQLIKVLDTKRDESGIAFVGLDIEWRPSFRKGVLP 147
Db 43 DLPFLEFTGSIVSYDASDCSFLSE-----DISMSLSDGDVVGFDMWPPLYNRGKL-G 95

QY 148 KVATVQICVDSNYCDVMHIFHSGI-PQSLQHLIEDSTLVKVGIGIDGSDVKLFHDYGVSI 206
Db 96 KVALIQLCVSESKCYLFHVSSMSVFPQGLKMLLENKAVKAGVGIEGDQWKLRLDFDIKL 155

QY 207 KVEDLSDLANQKIGGDKKWLASLTETLVCKELLKPNRIRLGNWFEFPLSKQQLQYAAAT 266
Db 156 KNFVELTDVANKKLTCTETWSLSLVKHLGQLLKDKSIRCSNNSKFPLTBDQKLYAAT 215

QY 267 DAYASWHLYKVLKDLPLDAV 285
Db 216 DAYAGFIIRNLEILDVT 234

Search completed: July 11, 2005, 12:05:10
Job time : 115 secs

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Result No.	Score	Query		DB	ID	Description
		Match	Length			
1	1049	100.0	1049	10	US-09-896-186B-23	Sequence 1
2	831	79.2	942	10	US-09-896-186B-1	Sequence 1
3	276.2	26.3	1170	9	US-09-906-228-15	Sequence 1
4	276.2	26.3	1253	18	US-10-424-599-84537	Sequence 1
5	113.2	10.7	5765	19	US-10-741-601-18	Sequence 1
6	113.2	10.7	5765	21	US-10-741-600-22	Sequence 1
7	113.2	10.7	6428	19	US-10-741-601-15	Sequence 1

QY 1 ACCAAAGCATTAAATTTTATTTTGTGTTTTCAGTAAAGAAATGTCATCGTCAAAATTGGA 60

Db 1 ACCAAAGCATTAAATTTTATTTTGTGTTTTCAGTAAAGAAATGTCATCGTCAAAATTGGA 60

```

RESULT 1
US-09-896-186B-23
; Sequence 23, Application US/09896186B
; Publication No. US20030166227A1
; GENERAL INFORMATION:
; APPLICANT: Joshua Z. Levin
; APPLICANT: Ken Phillips
; APPLICANT: Greg Budziszewski
; APPLICANT: Fred Weina
; APPLICANT: Zhenya Glazov
; TITLE OF INVENTION: Methods of Controlling Gene Expression
; FILE REFERENCE: PB/5-31481A
; CURRENT APPLICATION NUMBER: US/09/896,186B
; CURRENT FILING DATE: 2002-04-04
; NUMBER OF SEQ ID NOS: 38
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 23
; LENGTH: 1049
; TYPE: DNA
; ORGANISM: Arabidopsis thaliana
US-09-896-186B-23

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QY 61 TCAGCAGCGCTTTTACAGAGGAGAGCTTCTCGCTATCGAGCCCATCGAAGCTTCTCTACA 120
Db 61 TCAGCAGCGCTTTTACAGAGGAGAGCTTCTCGCTATCGAGCCCATCGAAGCTTCTCTACA 120
QY 121 ATTCTCCCGTTCTTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 180
Db 121 ATTCTCCCGTTCTTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 180
QY 181 CCGTCATGCCACAGAGGAGATCAAAATCAAAATCCCAATCCCAATTAATATCGTCCCAATTCG 240
Db 181 CCGTCATGCCACAGAGGAGATCAAAATCAAAATCCCAATTAATATCGTCCCAATTCG 240
QY 241 CTCGTTCCCATCACTTCTCTACATCTTATAAAGATTTCTCTCTCCCGTTCCCGAGCTA 300
Db 241 CTCGTTCCCATCACTTCTCTACATCTTATAAAGATTTCTCTCTCCCGTTCCCGAGCTA 300
QY 301 GGAAATTTTCCAGCAATGAGGTTTGGTGGTAGGATTTTGTATAGCAAGACTGCTACTGAGG 360
Db 301 GGAAATTTTCCAGCAATGAGGTTTGGTGGTAGGATTTTGTATAGCAAGACTGCTACTGAGG 360
QY 361 TTGATAAGCGAGCAATGCAAGCTTATAAAGTTCTTGATACCAAGAGAGATGAATCTGGAA 420
Db 361 TTGATAAGCGAGCAATGCAAGCTTATAAAGTTCTTGATACCAAGAGAGATGAATCTGGAA 420
QY 421 TAGCTTTTCTGCTTGGATATTGAGTGGAGACCAAGTTTATAGAAAAGTGTTCTCCCGG 480
Db 421 TAGCTTTTCTGCTTGGATATTGAGTGGAGACCAAGTTTATAGAAAAGTGTTCTCCCGG 480
QY 481 GGAAGGTTGCGACTGTCAGATATGTGTAGATAGTAATTTATTTGTGATGTTATGCAATTT 540
Db 481 GGAAGGTTGCGACTGTCAGATATGTGTAGATAGTAATTTATTTGTGATGTTATGCAATTT 540
QY 541 TTCATCTCGGTATCCCTCAAGTCTCAACATCTTATTGGAATTTCAACACTTGTAAAGG 600
Db 541 TTCATCTCGGTATCCCTCAAGTCTCAACATCTTATTGGAATTTCAACACTTGTAAAGG 600
QY 601 TAGGTATTGGAATTTGATGAGTCTGTGAAGCTTTCCATGACATGAGTGTAGTATCA 660
Db 601 TAGGTATTGGAATTTGATGAGTCTGTGAAGCTTTCCATGACATGAGTGTAGTATCA 660
QY 661 AAGATGTTGAGGATCTTTTACAGATTTAGCCAAACCAAAAAATTTGGTGGAGATAAAAAATGG 720
Db 661 AAGATGTTGAGGATCTTTTACAGATTTAGCCAAACCAAAAAATTTGGTGGAGATAAAAAATGG 720
QY 721 GCCTGCTCCTACTACTGAGACACTTGTGAAAGAGCTCTGAAAGCCCAACAGAAATCA 780
Db 721 GCCTGCTCCTACTACTGAGACACTTGTGAAAGAGCTCTGAAAGCCCAACAGAAATCA 780
QY 781 GGCCTGGGAACCTGGAGTTTATCTCTGTCAAAGCAGCTTACAATACGCAACAGG 840
Db 781 GGCCTGGGAACCTGGAGTTTATCTCTGTCAAAGCAGCTTACAATACGCAACAGG 840
QY 841 ATGCTTATGCTTTCATGGCATCTTTTACAGGTTCTTAAAGGACCTTCTGATGCTGTCAGTG 900
Db 841 ATGCTTATGCTTTCATGGCATCTTTTACAGGTTCTTAAAGGACCTTCTGATGCTGTCAGTG 900
QY 901 GCTCATAAGCGTAGAGAGAGGCTTAAAGGTTAGGCTTAAACCCCAAGAGTTAGCATCAA 960
Db 901 GCTCATAAGCGTAGAGAGAGGCTTAAAGGTTAGGCTTAAACCCCAAGAGTTAGCATCAA 960
QY 961 ATGATATGATACACCTTAATCTAGTCAAGTAGATGCAATTTCTGTGAATATCTATCTAGT 1020
Db 961 ATGATATGATACACCTTAATCTAGTCAAGTAGATGCAATTTCTGTGAATATCTATCTAGT 1020
QY 1021 TCTGGTCCCTTTAACCGTCCAGAACTAG 1049
Db 1021 TCTGGTCCCTTTAACCGTCCAGAACTAG 1049
```

RESULT 2

US-09-896-186B-1

; Sequence 1, Application US/09896186B

; Publication No. US20030166227A1

```
; GENERAL INFORMATION:
; APPLICANT: Joshua Z. Levin
; APPLICANT: Ken Phillips
; APPLICANT: Greg Budziszewski
; APPLICANT: Fred Meins
; APPLICANT: Zhenya Glazov
; TITLE OF INVENTION: Methods of Controlling Gene Expression
; FILE REFERENCE: PB/5-31481A
; CURRENT APPLICATION NUMBER: US/09/896,186B
; CURRENT FILING DATE: 2002-04-04
; NUMBER OF SEQ ID NOS: 38
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
; LENGTH: 942
; TYPE: DNA
; ORGANISM: Arabidopsis thaliana
US-09-896-186B-1
```

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Query Match 79.2%; Score 831; DB 10; Length 942;
Best Local Similarity 96.1%; Pred. No. 1.3e-227; Indels 0; Gaps 0;
Matches 852; Conservative 0; Mismatches 35;

QY 42 ATGTCATCGTCAAAATTTGGATCGACGAGCGCTTTTACAGAGGAGAGCTTCTCGCTATCGAC 101
Db 1 ATGTCATCGTCAAAATTTGGATCGACGAGCGCTTTTACAGAGGAGAGCTTCTCGCTATCGAC 60
QY 102 GCCATCGAAGCTTCTCTACAAATTTCTCCGTTCTTCTTCTTCTTCTTCTTCTTCTTCTGCTCG 161
Db 61 GCCATCGAAGCTTCTCTACAAATTTCTCCGTTCTTCTTCTTCTTCTTCTTCTTCTTCTGCTCG 120
QY 162 ACCGTACAAGCTACAACCTCGTCATGGCCACAGAGGAGATCCAAATCAAAATCCCAAT 221
Db 121 ACCGTACAAGCTACAACCTCGTCATGGCCACAGAGGAGATCCAAATCAAAATCCCAAT 180
QY 222 AATATCCGTCGCCAATTTGCCCTCGTTCCATCACTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCT 281
Db 181 AATATCCGTCGCCAATTTGCCCTCGTTCCATCACTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCT 240
QY 282 CTCTCCGTTCCGAGCTAGGAAATTTTCCAGCAATGAGTTTGGTGGTAGGATTTGTAT 341
Db 241 CTCTCCGTTCCGAGCTAGGAAATTTTCCAGCAATGAGTTTGGTGGTAGGATTTGTAT 300
QY 342 AGCAAGACTGCTACTGAGTTGATAAGCGCAATGCAAGCTTATTAAAGTTCTTGTATACC 401
Db 301 AGCAAGACTGCTACTGAGTTGATAAGCGCAATGCAAGCTTATTAAAGTTCTTGTATACC 360
QY 402 AAGAGAGATGAATCTGGAATAGCTTTTGTGGCTTGGATTTTGAGTGGAGACCAAGTTT 461
Db 361 AAGAGAGATGAATCTGGAATAGCTTTTGTGGCTTGGATTTTGAGTGGAGACCAAGTTT 420
QY 462 AGAAAGGTGTTCTCCCGGGAAGGTTCCGACTGTCCAGATATGTTGATAGTAGTAATTTAT 521
Db 421 AGAAAGGTGTTCTCCCGGGAAGGTTCCGACTGTCCAGATATGTTGATAGTAGTAATTTAT 480
QY 522 TGTGATGTTATGCATATTTTTCATTTCTGGTATCCCTCAAGTCTCCACATCTTATTGAA 581
Db 481 TGTGATGTTATGCATATTTTTCATTTCTGGTATCCCTCAAGTCTCCACATCTTATTGAA 540
QY 582 GATTCAACACTTGTAAAGGTAGGTTATGGAATTTGATGGTGAATCTCTGTGAAGCTTTTCCAT 641
Db 541 GATTCAACACTTGTAAAGGTAGGTTATGGAATTTGATGGTGAATCTCTGTGAAGCTTTTCCAT 600
QY 642 GACTATGAGTTAGTATCAAAAGATTTGAGGATCTTTTCCAGATTTTACCAACCAAAATTT 701
Db 601 GACTATGAGTTAGTATCAAAAGATTTTCCAGATCTTTTCCAGATTTTACCAACCAAAATTT 660
QY 702 GGTGGAGATAAAAAATGGGCTTCCCTCACTTAAGTGAACACTTGTGTTGCAAGAGCTC 761
Db 661 GGTGGAGATAAAAAATGGGCTTCCCTCACTTAAGTGAACACTTGTGTTGCAAGAGCTC 720
QY 762 CTGAAGCCAAACAGAAATCAGGCTTGGGAACTGGGAGTTTATTCCTCTCTCAAGCAGCAG 821
Db 721 CTGAAGCCAAACAGAAATCAGGCTTGGGAACTGGGAGTTTATTCCTCTCTCAAGCAGCAG 780
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QY 456 AGTTTATAGAAAAGGTTCTCCCGGGGAAGGTTGGACGTGTCAGATATGTTAGATAGT 515
Db ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
1050 TTATACAATAGAGGGAACCT---TGCAAAAGTTGCACTAAATCAGTTGTGTGTTCTGAG 1106
QY 516 AATTATTGTGATGTTATGCATATTTT---CATTTCTGGTATCCCTCAAGTCTCCAAAT 572
Db ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
1107 AGCAAAATGTTACTTGTGTTCCACRTTTTCTCATGTGAGTTTTTCCCGGGGATTAATAATG 1166
QY 573 CTTATTGAAGATTCAACACTCTGTAAGGTAGGTATTTGGAATTTGATGGTCTGTGAAG 632
Db ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
1167 TTGCTTGAAATTAAGCAGTTAAAGGCGAGGTAGGAATTTGAAGGATCAGTGGAAA 1226
QY 633 CTTTTCATGACTATGAGGTTAGTATCAAAAGATTTGAGGATCTTTTCAAGATTTAGCCAAAC 692
Db ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
1227 CTTTACGTGACTTTGATATCAATCAAAATGAAGATTTTGTGGAGTTCACAGATGTTGCCAAAT 1286
QY 693 CAATAAAATTTGGTGGAGATATAAAATGCGGCTTGGCTCACTAACTGAGACACTTTTTCG 752
Db ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
1287 AAAAAGCTGAAATGYACAGAGACCTGGAGCCTTAAACAGTCTGGTTAAACACCTCTTAGGT 1346
QY 753 AAAGAGCTCTGAAGCCAAACAGAACTCAGGCTTGGAACTGGGAGTTTATCTCTGTCA 812
Db ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
1347 AAACAGCTCTGAAGACAACTCTATCCGCTGTAGCAATTTGAGTAAATTTCTCTCACT 1406
QY 813 AAGCAGCAGTTTACAATACGACGAAACGAGATGCTTATGCTTCAATGGCATCTTTTACAAGTT 872
Db ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
1407 GAGGACCAAGAACTGATGACGCCACTGATGCTTATGCTGTTTATTTATTTACCAGAAAT 1466
QY 873 CTTAAGGACCTTCTGATGCTGT 895
Db ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
1467 TTAGAGATTTTGGATGATACTGT 1489
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RESULT 8

```
US-10-741-600-19
; Sequence 19, Application US/10741600
; Publication No. US20050026169A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: MYOCARDIAL INFARCTION, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001499
; CURRENT APPLICATION NUMBER: US/10/741,600
; CURRENT FILING DATE: 2003-12-22
; NUMBER OF SEQ ID NOS: 73997
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 19
; LENGTH: 6428
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-741-600-19
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Query Match 10.7%; Score 112.2; DB 21; Length 6428;
Best Local Similarity 54.1%; Pred. No. 1.2e-20;
Matches 272; Conservative 1; Mismatches 224; Indels 6; Gaps 2;

QY 396 GATACCAAGAGATGAATCTGGAATAGCTTTTGTGGCTGGATTTGATGAGTGGAGACCA 455
Db ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
990 GATATTAGCATGAGTCTATCAGATGGGATGTGGTGGGATTTGACATGGAGTGGCCACCA 1049
QY 456 AGTTTATAGAAAAGGTTCTCCCGGGGAAGGTTGGACGTGTCAGATATGTTAGATAGT 515
Db ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
1050 TTATACAATAGAGGGAACCT---TGCAAAAGTTGCACTAAATCAGTTGTGTGTTCTGAG 1106
QY 516 AATTATTGTGATGTTATGCATATTTT---CATTTCTGGTATCCCTCAAGTCTCCAAAT 572
Db ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
1107 AGCAAAATGTTACTTGTGTTCCACRTTTTCTCATGTGAGTTTTTCCCGGGGATTAATAATG 1166
QY 573 CTTATTGAAGATTCAACACTCTGTAAGGTAGGTATTTTGTGGCTGGATTTGATGAGTGGAGACCA 632
Db ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
1167 TTGCTTGAAATTAAGCAGTTAAAGGCGAGGTAGGAATTTGACATGGAGTGGCCACCA 1226
```

```
QY 633 CTTTTCATGACTATGAGGTTAGTATCAAAAGATGTTGAGGATCTTTTCAAGATTTAGCCAAAC 692
Db ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
1227 CTTTACGTGACTTTGATATCAAAATTTGAAGAAATTTTGTGGAGTTGACAGATGTTGCCAAAT 1286
QY 693 CAATAAAATTTGGTGGAGATATAAAATGCGGCTTGGCTCACTAACTGAGACACTTTTTCG 752
Db ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
1287 AAAAAGCTGAAATGYACAGAGACCTGGAGCCTTAAACAGTCTGGTTAAACACCTCTTAGGT 1346
QY 753 AAAGAGCTCTGAAGCCAAACAGAACTCAGGCTTGGAACTGGGAGTTTATCTCTGTCA 812
Db ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
1347 AAACAGCTCTGAAGACAACTCTATCCGCTGTAGCAATTTGAGTAAATTTCTCTCACT 1406
QY 813 AAGCAGCAGTTTACAATACGACGAAACGAGATGCTTATGCTTCAATGGCATCTTTTACAAGTT 872
Db ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
1407 GAGGACCAAGAACTGATGACGCCACTGATGCTTATGCTGTTTATTTATTTACCAGAAAT 1466
QY 873 CTTAAGGACCTTCTGATGCTGT 895
Db ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
1467 TTAGAGATTTTGGATGATACTGT 1489
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RESULT 9

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US-10-741-601-16
; Sequence 16, Application US/10741601
; Publication No. US20040166519A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; FILE REFERENCE: CL001500
; CURRENT APPLICATION NUMBER: US/10/741,601
; CURRENT FILING DATE: 2003-12-22
; NUMBER OF SEQ ID NOS: 26415
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 16
; LENGTH: 6431
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-741-601-16
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Query Match 10.7%; Score 112.2; DB 19; Length 6431;
Best Local Similarity 54.1%; Pred. No. 1.2e-20;
Matches 272; Conservative 1; Mismatches 224; Indels 6; Gaps 2;

QY 396 GATACCAAGAGAGATGAATCTGGAATAGCTTTTGTGGCTGGATTTGATGAGTGGAGACCA 455
Db ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
990 GATATTAGCATGAGTCTATCAGATGGGATGTGGTGGGATTTGACATGGAGTGGCCACCA 1049
QY 456 AGTTTATAGAAAAGGTTTCTCCCGGGGAAGGTTGGACGTGTCAGATATGTTAGATAGT 515
Db ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
1050 TTATACAATAGAGGGAACCT---TGCAAAAGTTGCACTAAATCAGTTGTGTGTTCTGAG 1106
QY 516 AATTATTGTGATGTTATGCATATTTT---CATTTCTGGTATCCCTCAAGTCTCCAAAT 572
Db ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
1107 AGCAAAATGTTACTTGTGTTCCACRTTTTCTCATGTGAGTTTTTCCCGGGGATTAATAATG 1166
QY 573 CTTATTGAAGATTCAACACTCTGTAAGGTAGGTATTTTGTGGCTGGATTTGATGAGTGGAG 632
Db ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
1167 TTGCTTGAAATTAAGCAGTTAAAGGCGAGGTAGGAATTTGAGGAGATTCAGTGGGAAA 1226
QY 633 CTTTTCATGACTATGAGGTTAGTATCAAAAGATGTTGAGGATCTTTTCAAGATTTAGCCAAAC 692
Db ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
1227 CTTTACGTGACTTTGATATCAAAATTTGAGGATTTTGTGGAGTTGACAGATGTTGCCAAAT 1286
QY 693 CAATAAAATTTGGTGGAGATATAAAATGCGGCTTGGCTCACTAACTGAGACACTTTTTCG 752
Db ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
1287 AAAAAGCTGAAATGYACAGAGACCTGGAGCCTTAAACAGTCTGGTTAAACACCTCTTAGGT 1346
QY 753 AAAGAGCTCTGAAGCCAAACAGAACTCAGGCTTGGAACTGGGAGTTTATCTCTGTCA 812
Db ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
1347 AAACAGCTCTGAAAGCAAAAGTCTTATCCGCTGTAGCAATTTGAGTAAATTTCTCTCACT 1406
QY 813 AAGCAGCAGTTTACAATACGACGAAACGAGATGCTTATGCTTCAATGGCATCTTTTACAAGTT 872
```


Query Match 10.7%; Score 112.2; DB 21; Length 6521;
Best Local Similarity 54.1%; Pred. No. 1.2e-20;
Matches 272; Conservative 1; Mismatches 224; Indels 6; Gaps 2;

QY 396 GATACCAAGAGATCAATCTCGAATAGCTTTTGTGGCTTGGATATTCAGTGGAGACCA 455
DB 990 GATATTAGCATGAGTCTATCAGATGGGATGTGGTGGATTTGATCGAGTGGCCACCA 1049
QY 456 AGTTTTAGAAAAGGTGTTCTCCCGGGAGAGTGTGGACCTGCTCCAGATATGTAGATAGT 515
DB 1050 TTATACATAGAGGAACT---TGGCAAAGTTGCACTAAATTCAGTGTGTGTTCTGAG 1106
QY 516 AATTATTGTGATGTATGCAATATTTT---CATTCGTGATCCCTCAAAGTCTCCAAAT 572
DB 1107 AGCAAAATGTTACTTGTTCACRTTCTTCCATGTCTGAGTGTTCCTCCAGGATTAATAATG 1166
QY 573 CTTATTGAGATTCACACTCTGTAAGGTAGTATTTGGAATTTGATGGTCTGTGAG 632
DB 1167 TTGCTTGAATAAAGCAGTTAAAGGAGGAGTGTAGGAATTTGAAGGAGATCAGTGGAAA 1226
QY 633 CTTTTCATGACTATGAGTGTAGTATCAAGATGTGGAGTCTTTCAGATTTAGCCAAAC 692
DB 1227 CTTCTACGTGACTTTGATATCAATTTGAGATTTTGTGGATTTGACAGATTTGCCAAT 1286
QY 693 CAAAAAATGTTGGAGATAAAAAATGGGGCTTGCCTCACTAACTGACACACTTGTGTC 752
DB 1287 AAAAAAGCTGAAATGACAGAGACCTGGAGCCTTAAACAGTCTGGTTAAACACCTCTTAGGT 1346
QY 753 AAAGAGCTCTGGAACCAACAGATCAGGCTTGGAACTGGAGTGTATTCCTCTGTCA 812
DB 1347 AAACAGCTCTGAAAGACAAGTCTATCCGCTGTAGCAATTTGGAGTAAATTTCTCTCACT 1406
QY 813 AAGCAGCTTACATACGACAGCAGATGCTTATGCTTCATGCGCATCTTACAAAGTT 872
DB 1407 GAGGACCAAGAACTGTATGACGCCACTGATGCTTAAGTCTGCTTTATTATTACCGAAAT 1466
QY 873 CTTAAGGACCTTCTCGTGTCTGT 895
DB 1467 TTAGAGATTTGGATGATCTGT 1489

RESULT 13
US-09-896-186B-17
; Sequence 17, Application US/09896186B
; Publication No. US20030166227A1
; GENERAL INFORMATION:
; APPLICANT: Joshua Z. Levin
; APPLICANT: Ken Phillips
; APPLICANT: Greg Budziszewski
; APPLICANT: Fred Meins
; APPLICANT: Zhenya Glazov
; TITLE OF INVENTION: Methods of Controlling Gene Expression
; FILE REFERENCE: PB/5-31481A
; CURRENT APPLICATION NUMBER: US/09/896.186B
; CURRENT FILING DATE: 2002-04-04
; NUMBER OF SEQ ID NOS: 38
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 17
; LENGTH: 4299
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-896-186B-17

Query Match 10.6%; Score 111; DB 10; Length 4299;
Best Local Similarity 54.1%; Pred. No. 2.1e-20;
Matches 272; Conservative 0; Mismatches 225; Indels 6; Gaps 2;

QY 396 GATACCAAGAGATCAATCTCGAATAGCTTTTGTGGCTTGGATATTCAGTGGAGACCA 455
DB 202 GATATTAGCATGAGTCTATCAGATGGGATGTGGTGGATTTGACATGGAGTGGCCACCA 261
QY 456 AGTTTTAGAAAAGGTGTTCTCCCGGGAGAGTGTGGACCTGCTCCAGATATGTAGATAGT 515

DB 262 TTATACATAGAGGAACT---TGGCAAAGTTGCACTAAATTCAGTGTGTGTTCTGAG 318
QY 516 AATTATTGTGATGTATGCATATTTT---CATTCGTGATCCCTCAAAGTCTCCAAAT 572
DB 319 AGCAAAATGTTACTTGTTCACGTTTCTTCCATGTCTGAGTGTTCCTCCAGGATTAATAATG 378
QY 573 CTTATTGAGATTCACACTCTTGAAGGTAGTATTTGGAATTTGATGGTCTGTGAG 632
DB 379 TTGCTTGAATAAAGCAGTTAAAGGAGGAGTGTAGGAATTTGAAGGAGATCAGTGGAAA 438
QY 633 CTTTTCATGACTATGAGTGTAGTATCAAGATGTGTGAGATCTTTTCAGATTTAGCCAAAC 692
DB 439 CTTCTACGTGACTTTGATATCAAAATTTGAAGAAATTTTGTGGAGTTGACAGATGTGCCAAT 498
QY 693 CAAAAAATGTTGGAGATAAAAAATGGGGCTTGCCTCACTAACTGACACACTTGTGTC 752
DB 499 AAAAAAGCTGAAATGTACAGAGACCTGGAGCCTTAAACAGTCTGGTTAAACACCTCTTAGGT 558
QY 753 AAAGAGCTCTGGAACCAACAGATCAGGCTTGGAACTGGAGTGTATTCCTCTGTCA 812
DB 559 AAACAGCTCTGAAAGACAAGTCTATCCGCTGTAGCAATTTGGAGTAAATTTCTCTCACT 618
QY 813 AAGCAGCTTACATACGACAGCAGATGCTTATGCTTCATGCGCATCTTTTACAAAGTT 872
DB 619 GAGGACCAAGAACTGTATGACGCCACTGATGCTTATGCTGCTTTTATTATTACCGAAAT 678
QY 873 CTTAAGGACCTTCTCGTGTCTGT 895
DB 679 TTAGAGATTTGGATGATCTGT 701

RESULT 14
US-09-954-456-1131
; Sequence 1131, Application US/09954456
; Patent No. US20020115057A1
; GENERAL INFORMATION:
; APPLICANT: Young, Paul
; TITLE OF INVENTION: Process for Identifying Anti-Cancer Therapeutic Agents Using Canc
; TITLE OF INVENTION: Sets
; FILE REFERENCE: 689290-76
; CURRENT APPLICATION NUMBER: US/09/954,456
; CURRENT FILING DATE: 2001-09-18
; PRIOR APPLICATION NUMBER: US/60/233,617
; PRIOR FILING DATE: 2000-09-18
; PRIOR APPLICATION NUMBER: US/60/234,052
; PRIOR FILING DATE: 2000-09-20
; PRIOR APPLICATION NUMBER: US/60/234,923
; PRIOR FILING DATE: 2000-09-25
; PRIOR APPLICATION NUMBER: US/60/235,134
; PRIOR FILING DATE: 2000-09-25
; PRIOR APPLICATION NUMBER: US/60/235,637
; PRIOR FILING DATE: 2000-09-26
; PRIOR APPLICATION NUMBER: US/60/235,638
; PRIOR FILING DATE: 2000-09-26
; PRIOR APPLICATION NUMBER: US/60/235,711
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: US/60/235,720
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: US/60/235,840
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: US/60/235,863
; PRIOR FILING DATE: 2000-09-27
; NUMBER OF SEQ ID NOS: 2276
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 1131
; LENGTH: 5189
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-954-456-1131

Query Match 10.6%; Score 111; DB 9; Length 5189;
Best Local Similarity 54.1%; Pred. No. 2.4e-20;

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